

[illegible]

FIG.2

A-A' SECTIONAL VIEW

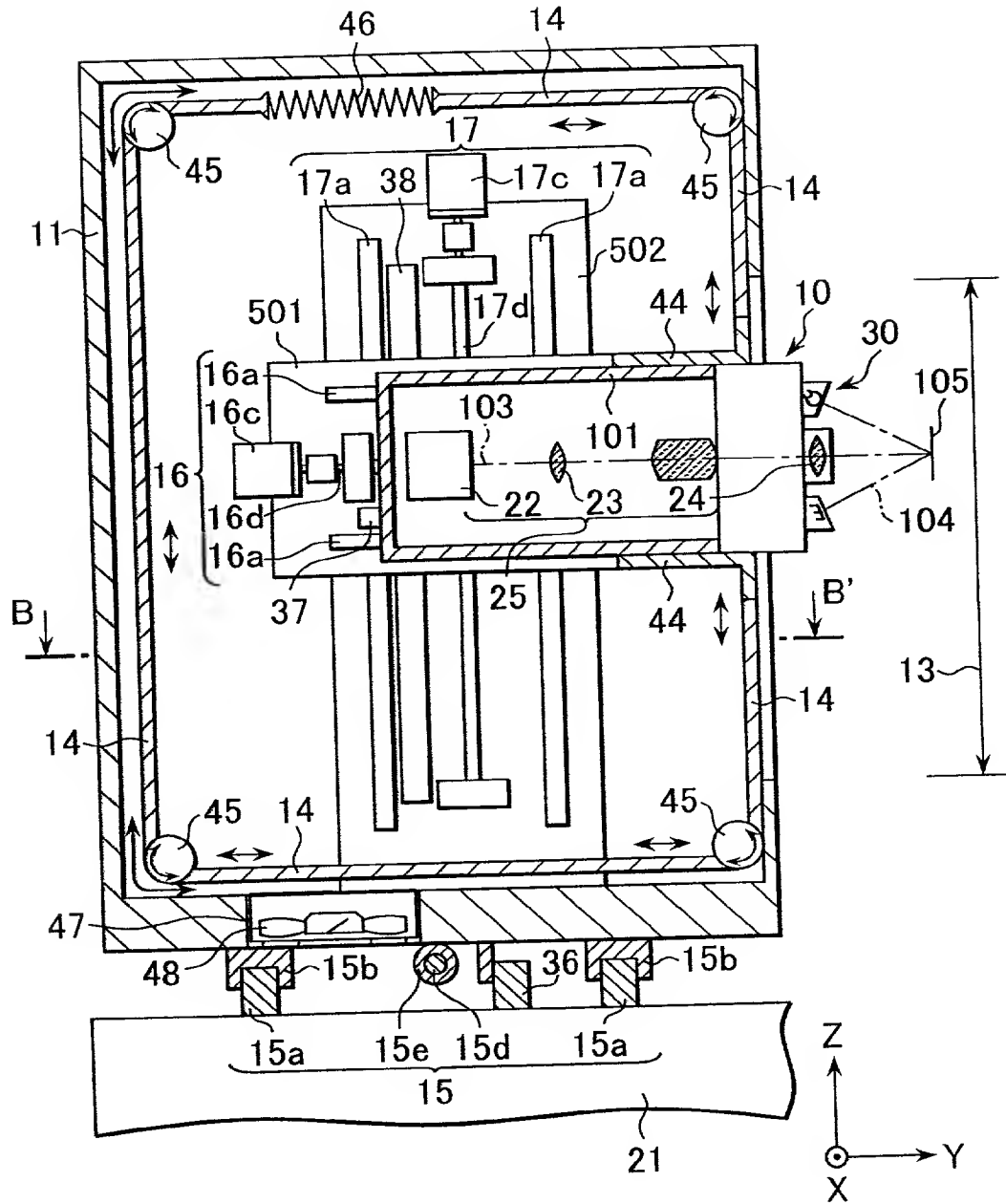


FIG.3

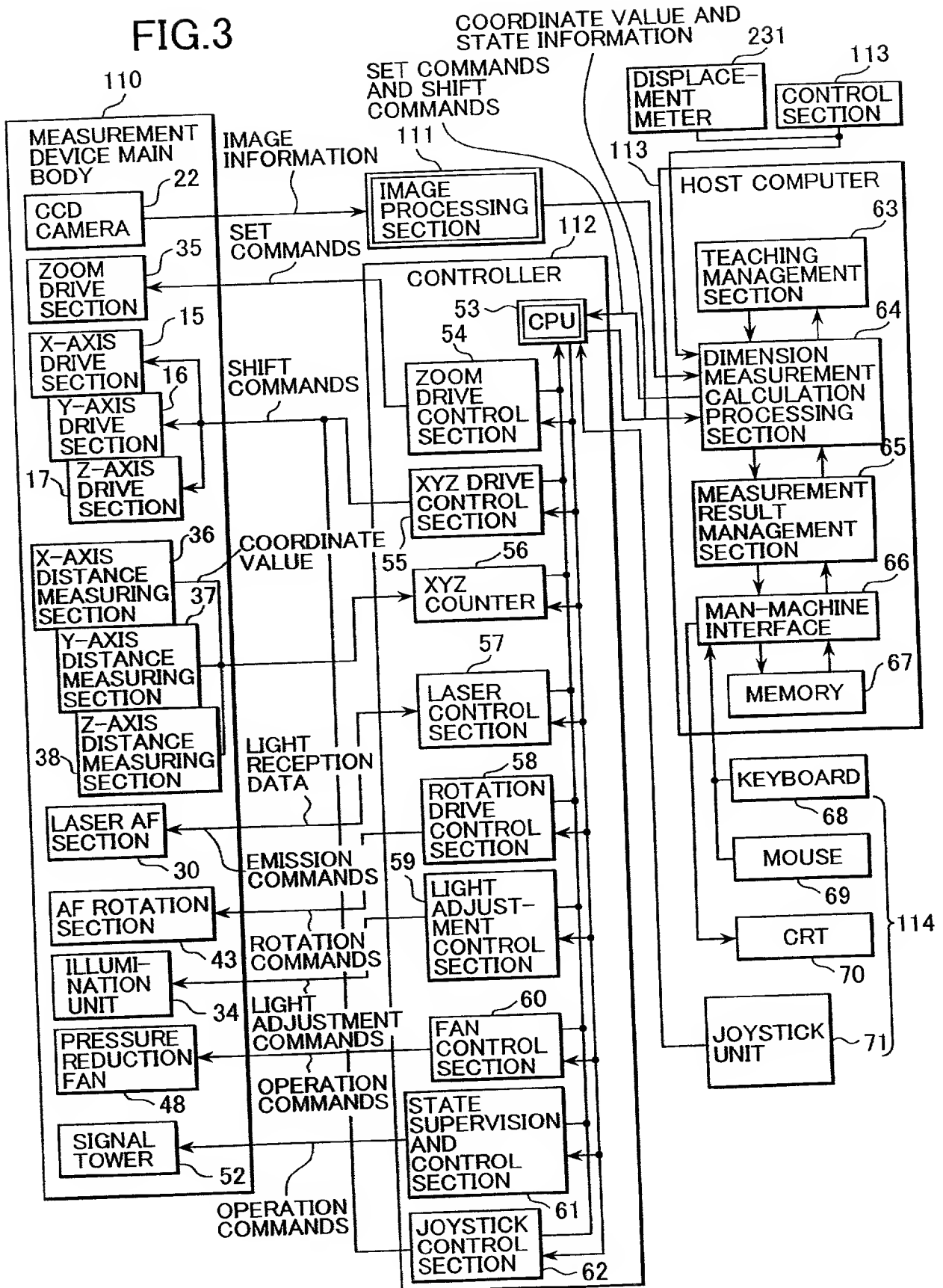


FIG. 4 is a cross-sectional view of a device 10, showing a central lens assembly 103 and 24, flanked by two side assemblies 26 and 27. The device is housed within a main body 101. A coordinate system is shown at the bottom with X, Y, and Z axes. The focal position 105 is indicated on the right side.

FIG. 4

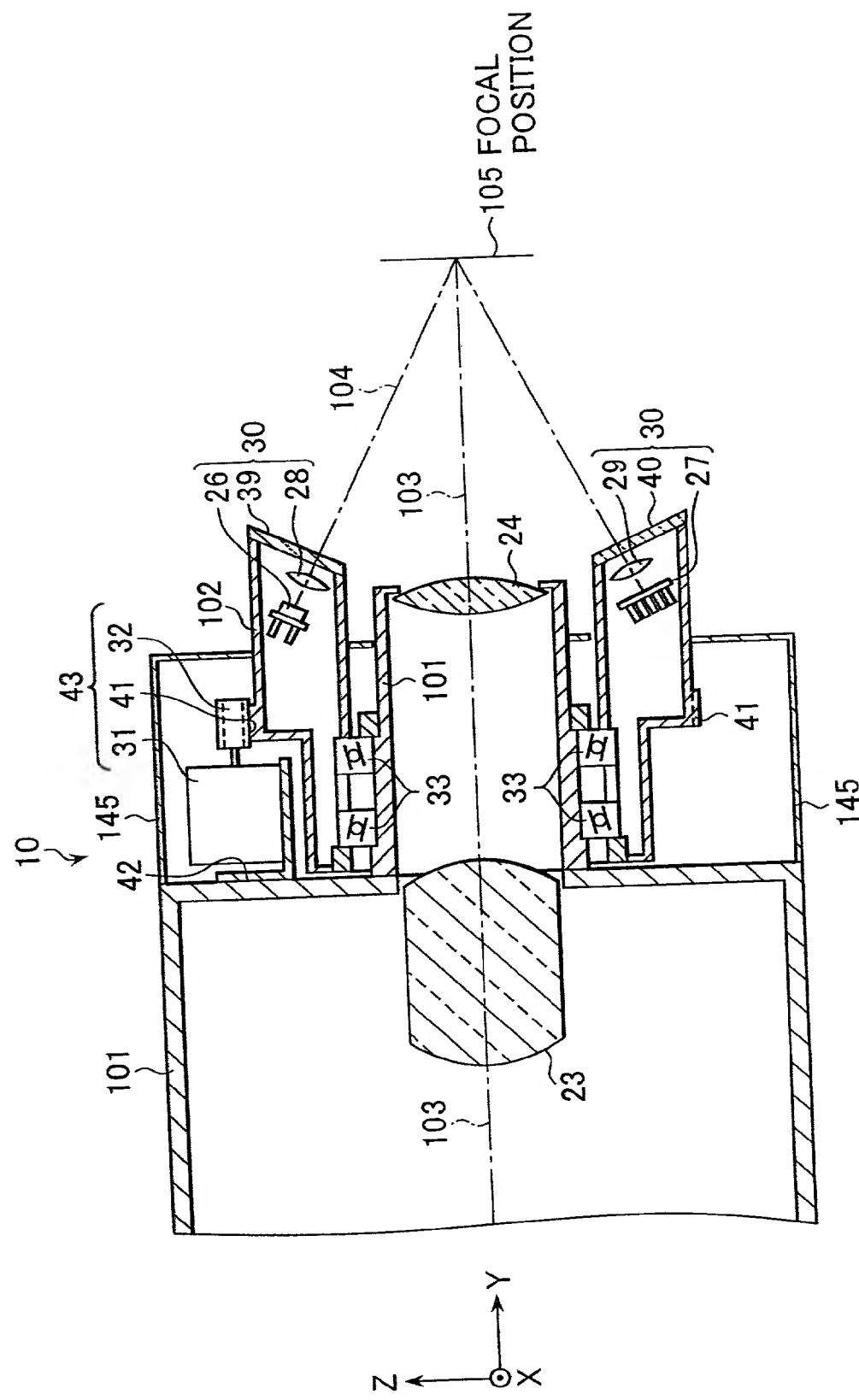


FIG.5A

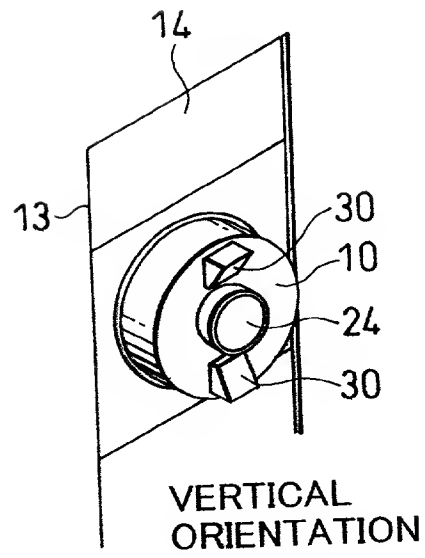


FIG.5B

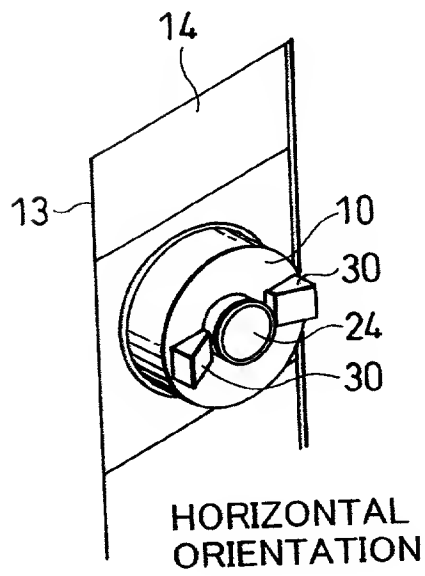


FIG.6

B-B' SECTIONAL VIEW

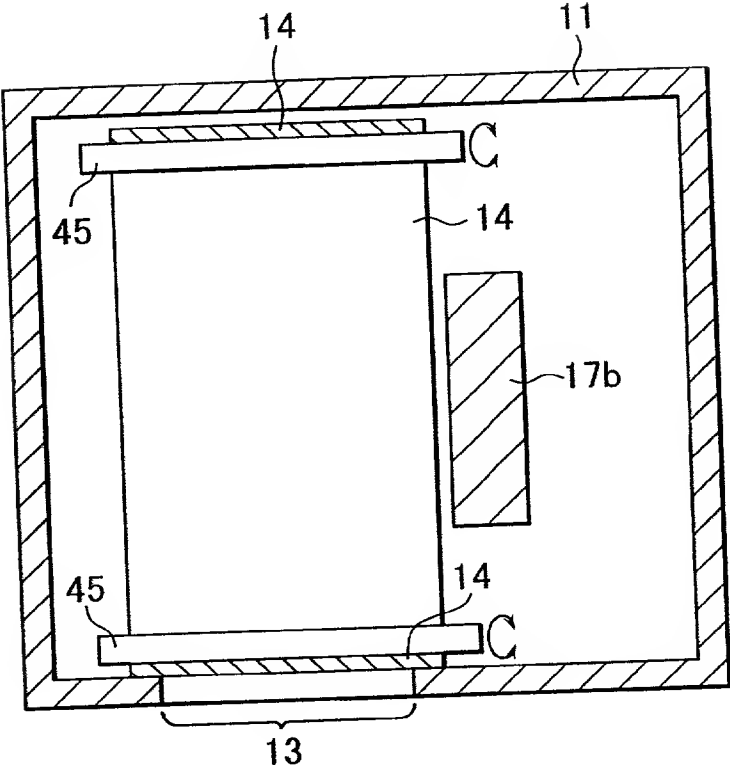


FIG.7

B-B' SECTIONAL VIEW
(WITH PRESSURE REDUCTION FAN 48 OPERATING)

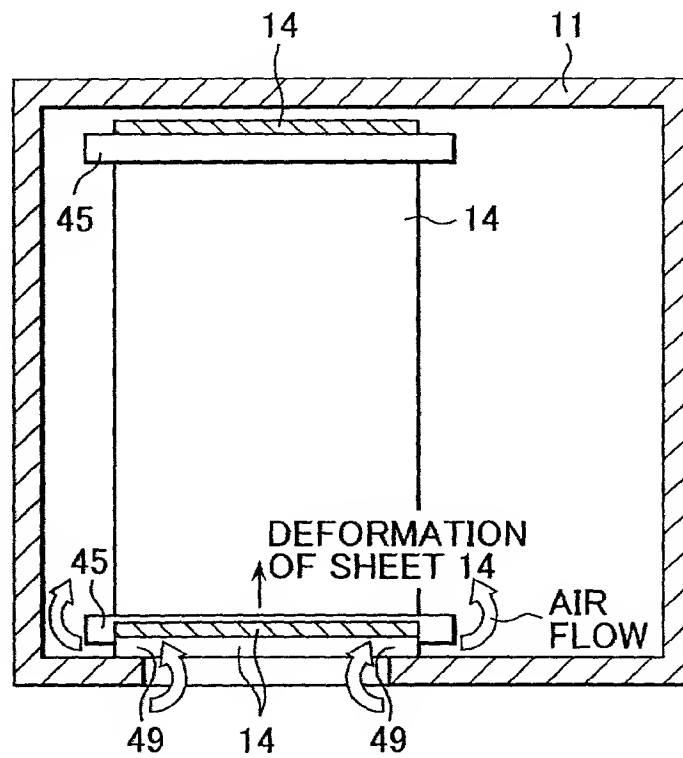


FIG.8

A-A' SECTIONAL VIEW
(WITH PRESSURE REDUCTION FAN 48 OPERATING)

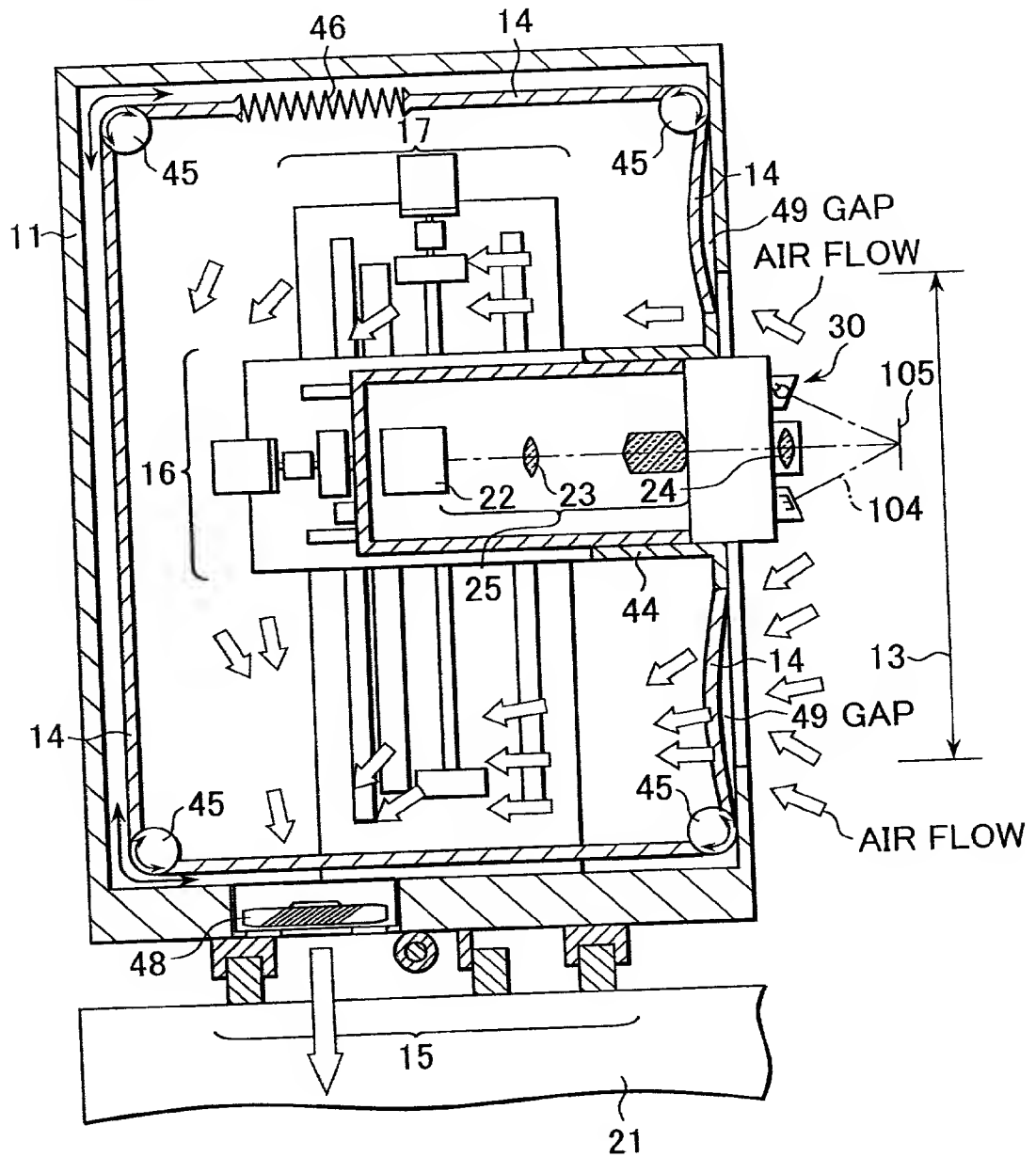


FIG.9

18

94 ROBOTIC HANDLING FLANGE

91 MAIN BODY

92 DOOR

93 TEETH

98

95 LATCH KEY
HOLES

96 REGISTRATION PIN HOLES

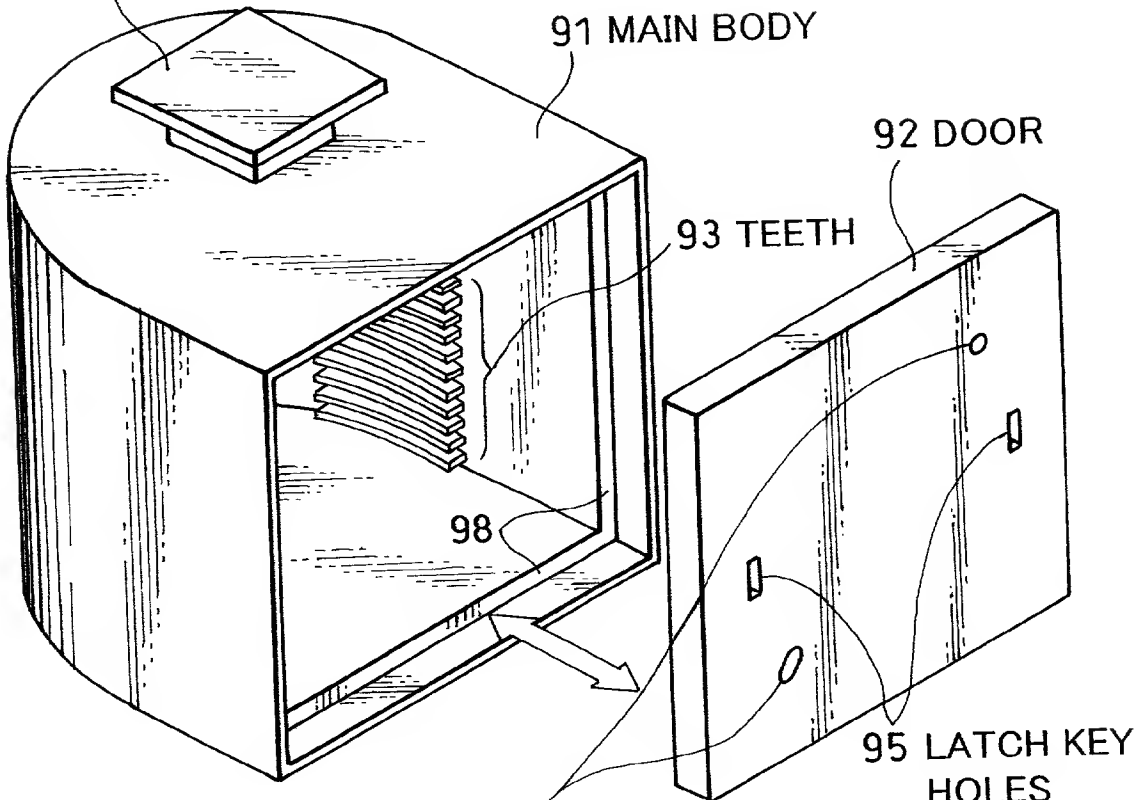


FIG.10

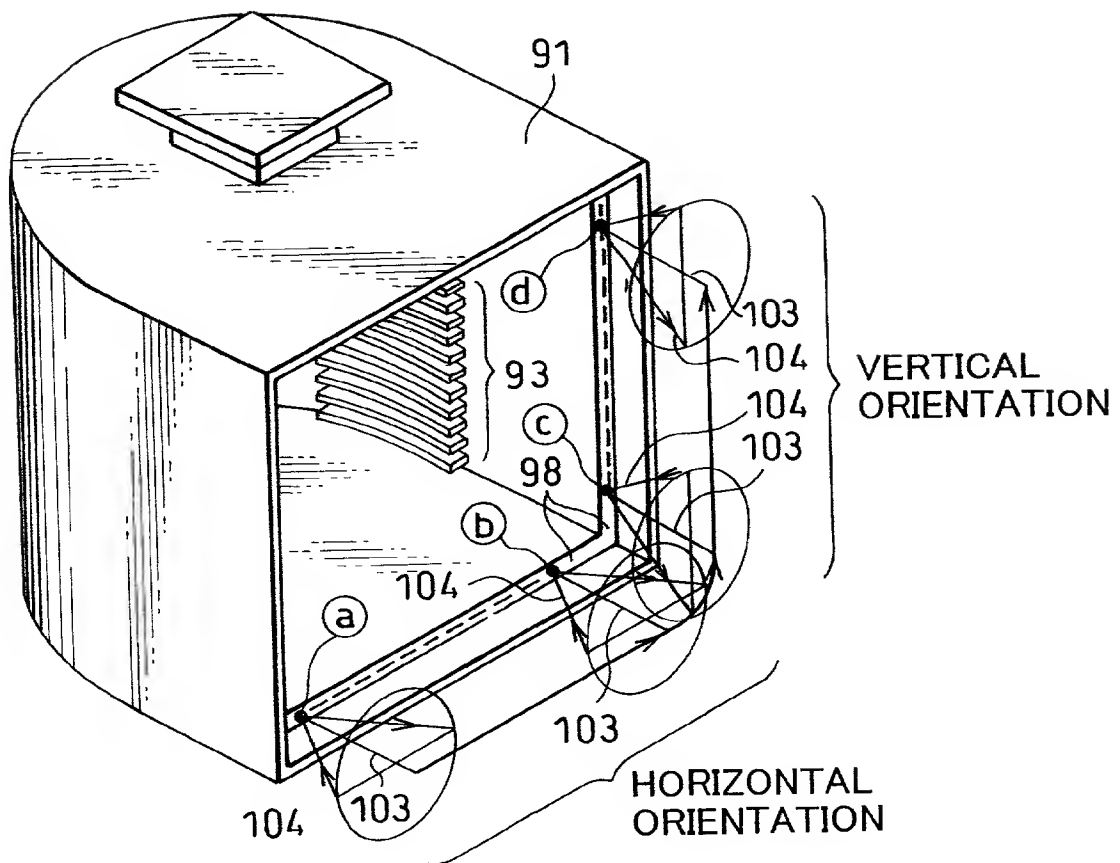


FIG.11

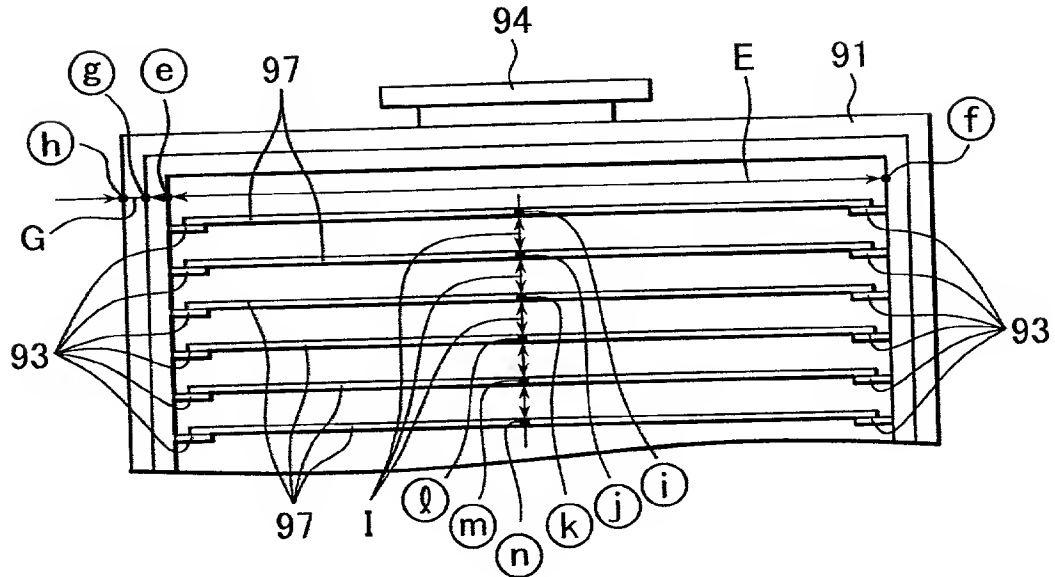


FIG.12

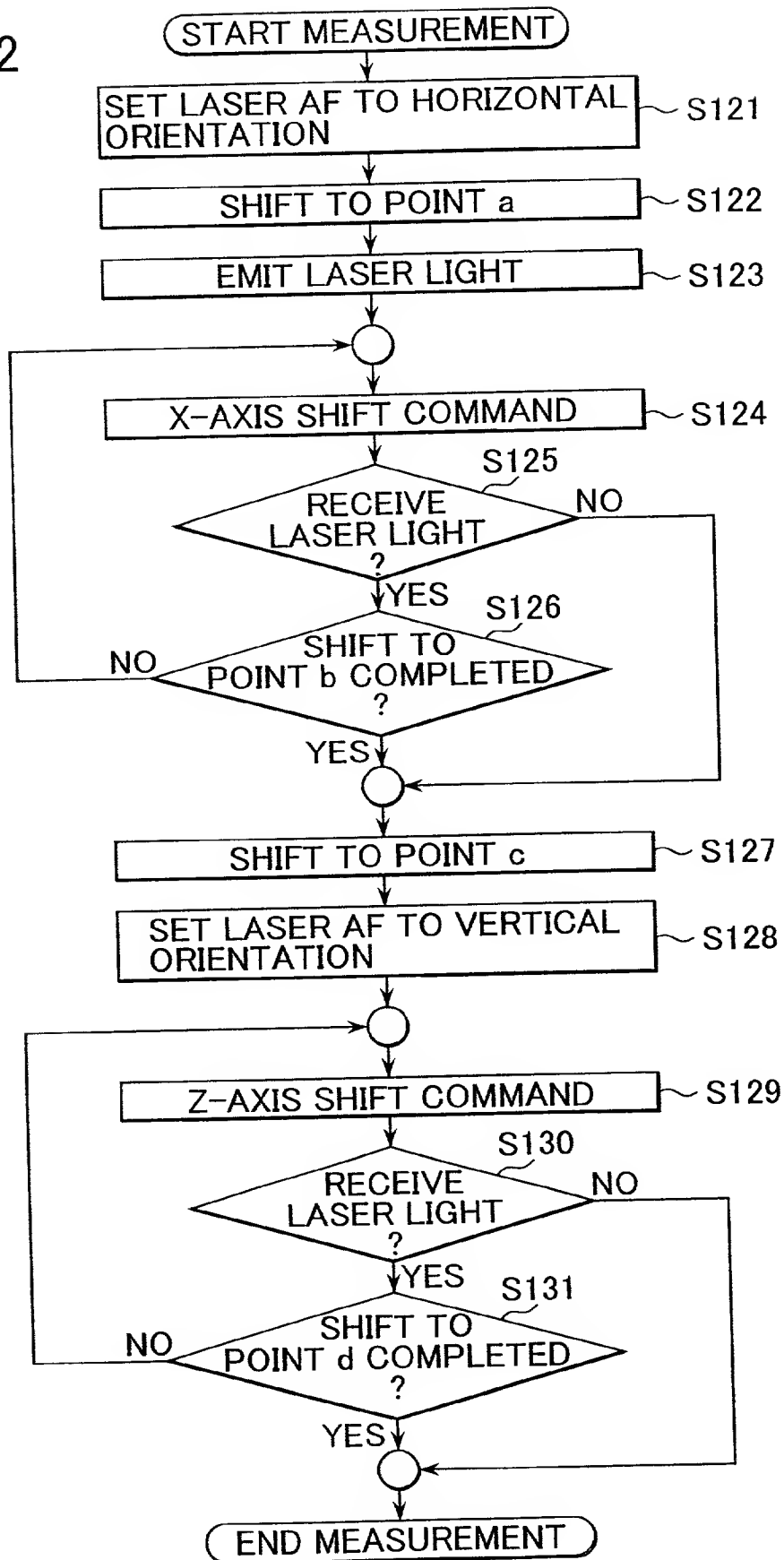


FIG.13A

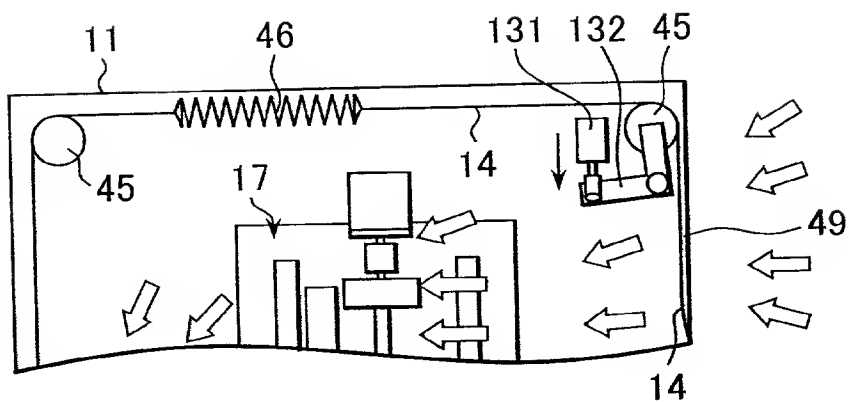


FIG.13B

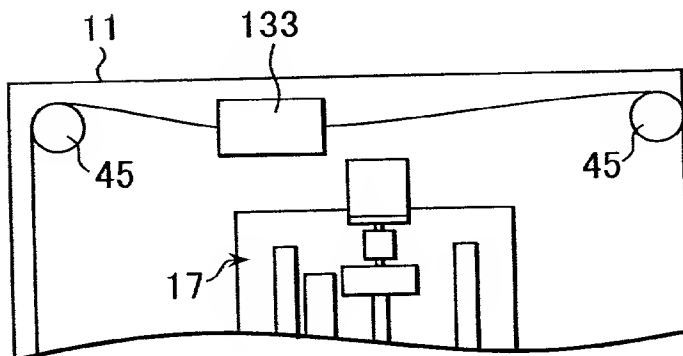


FIG.14

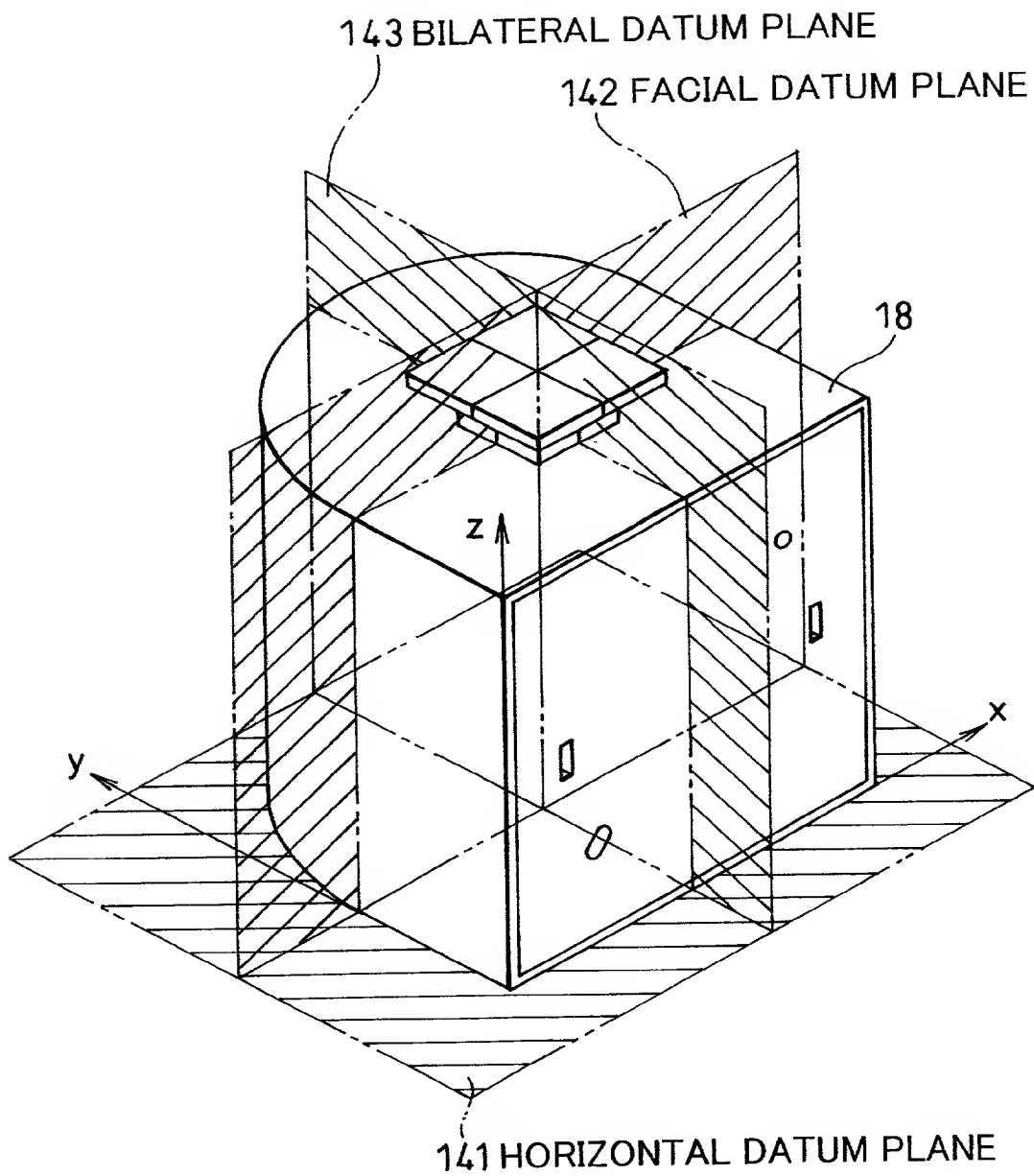


FIG.15

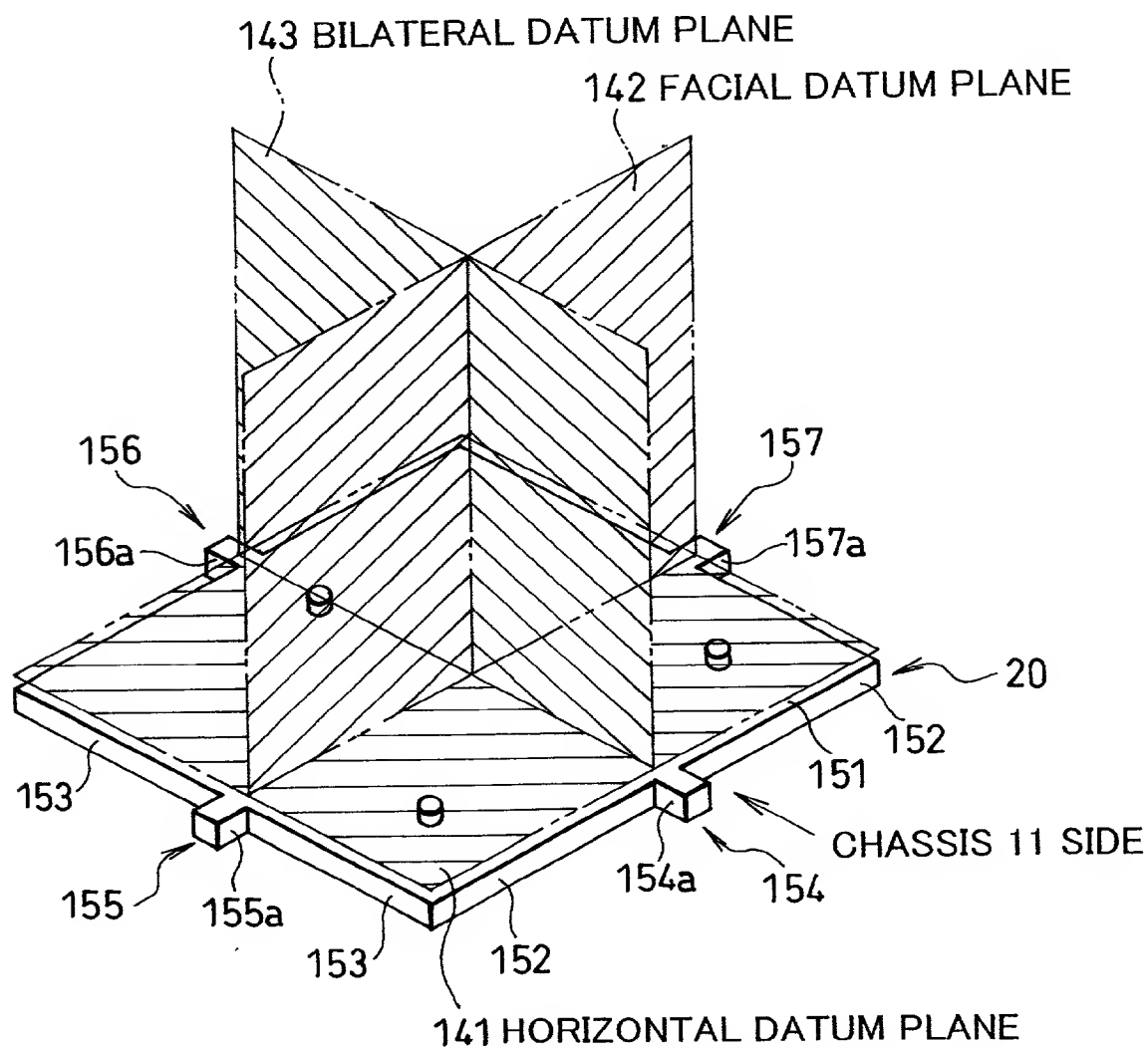


FIG.17

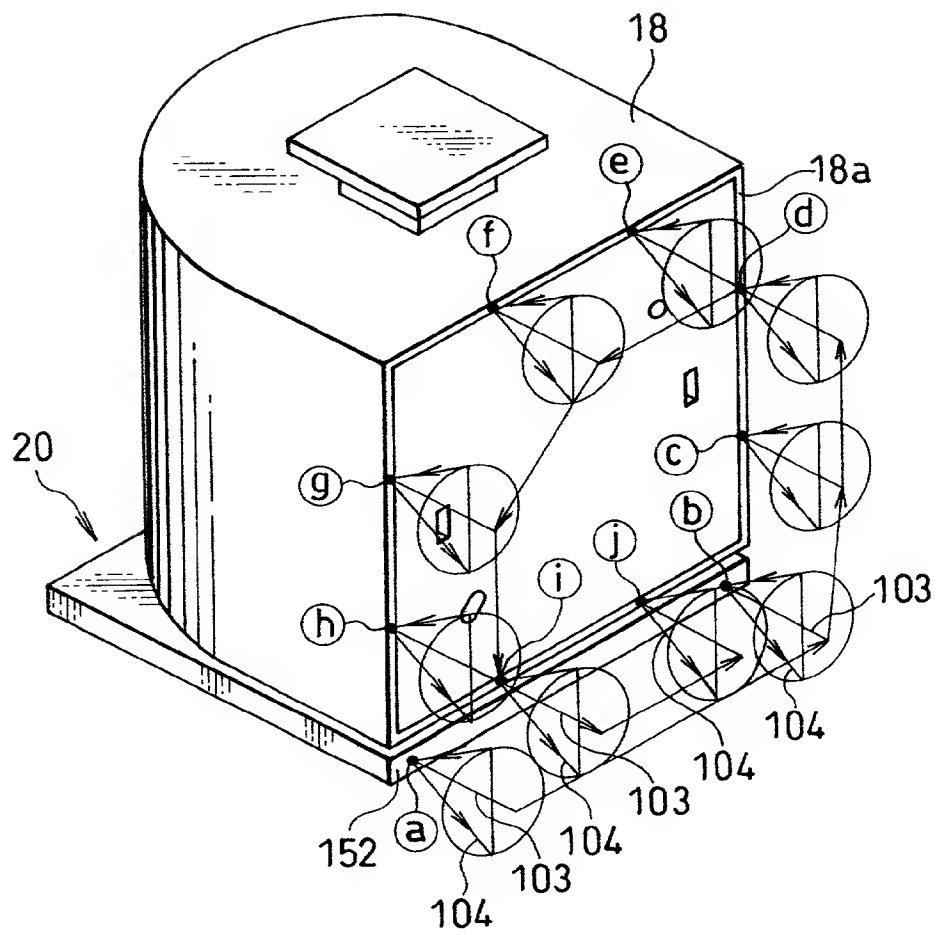


FIG.18

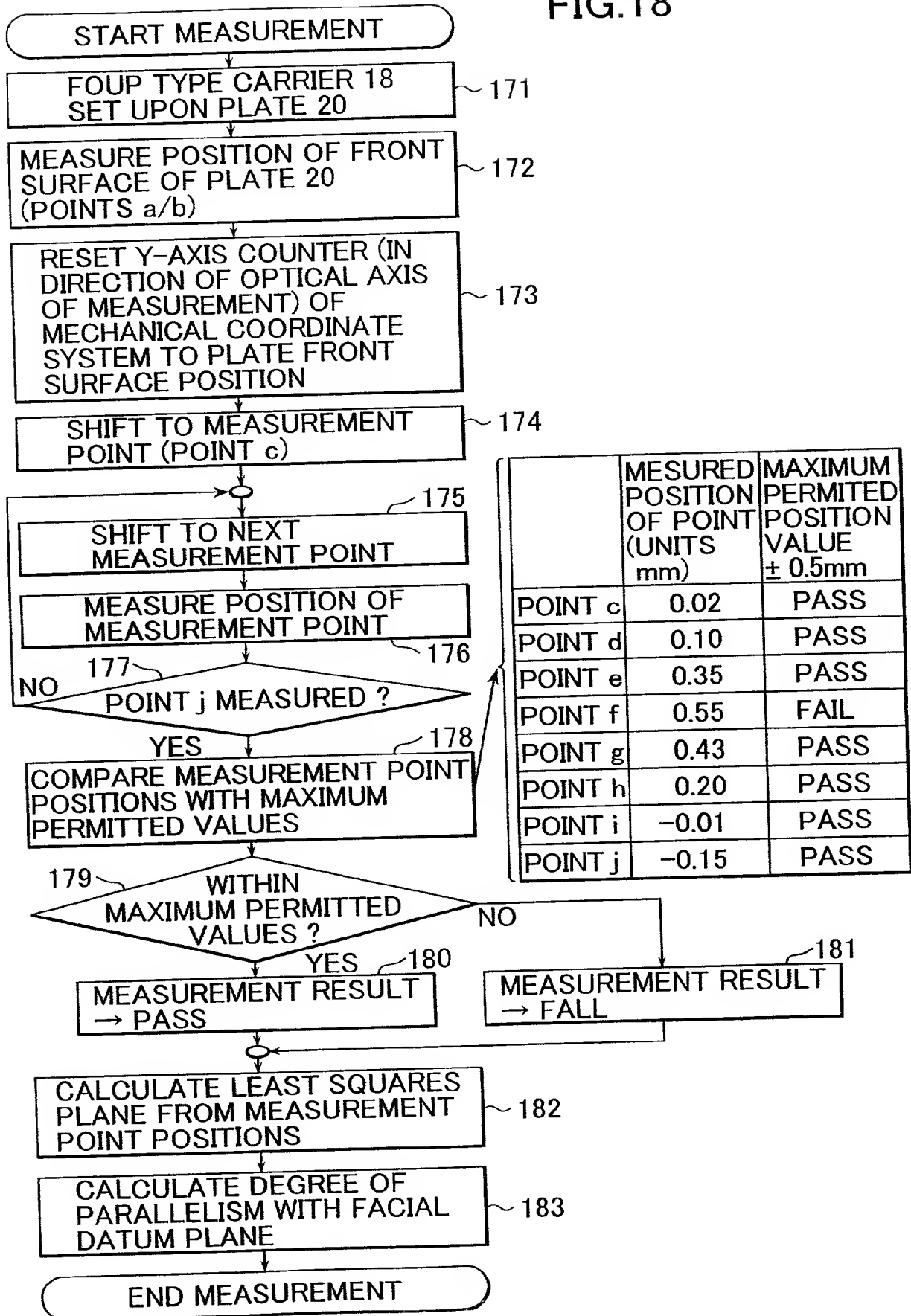


FIG.19A

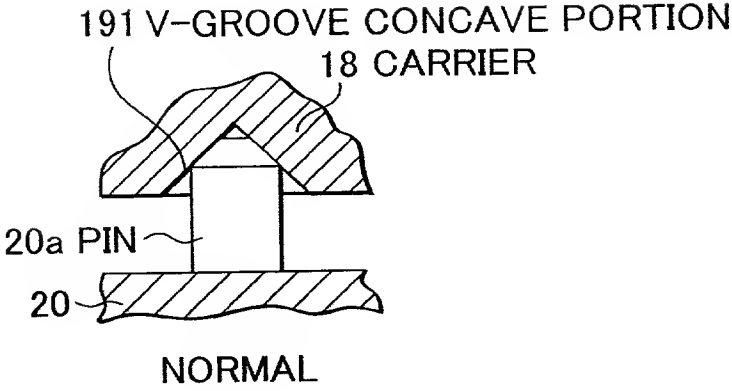


FIG.19B

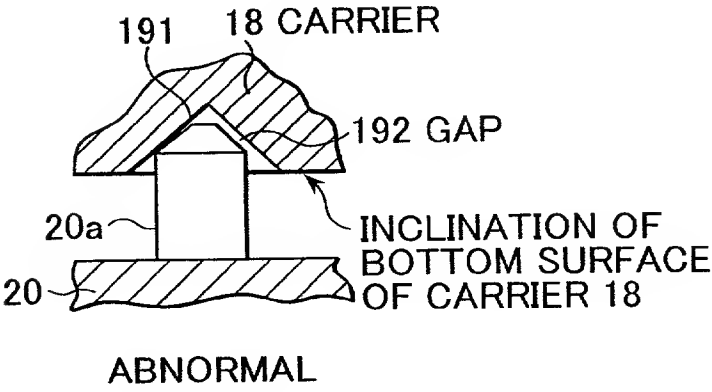


FIG. 20

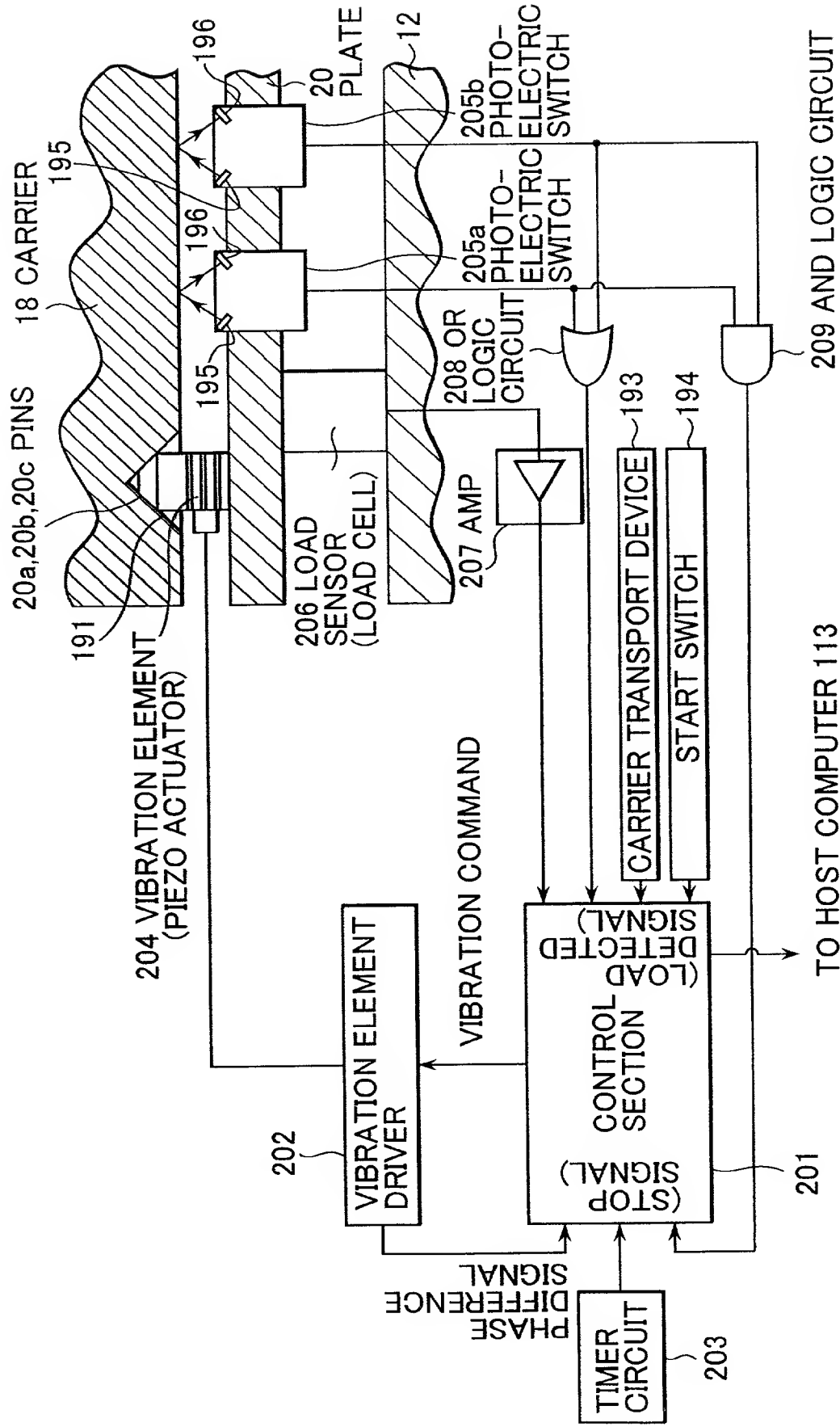


FIG. 21A

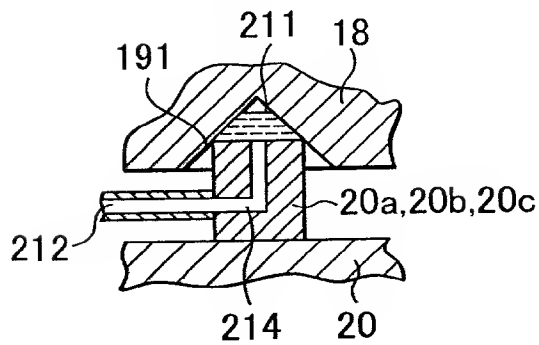


FIG. 21B

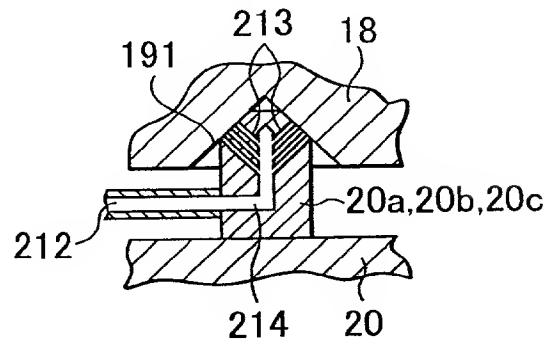


FIG. 21C

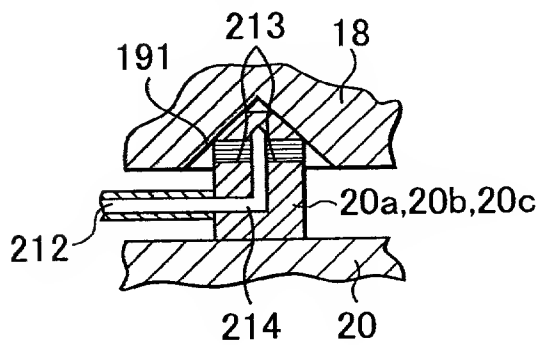


FIG. 21D

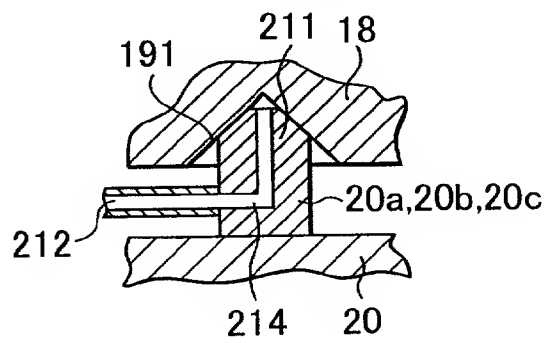


FIG.22

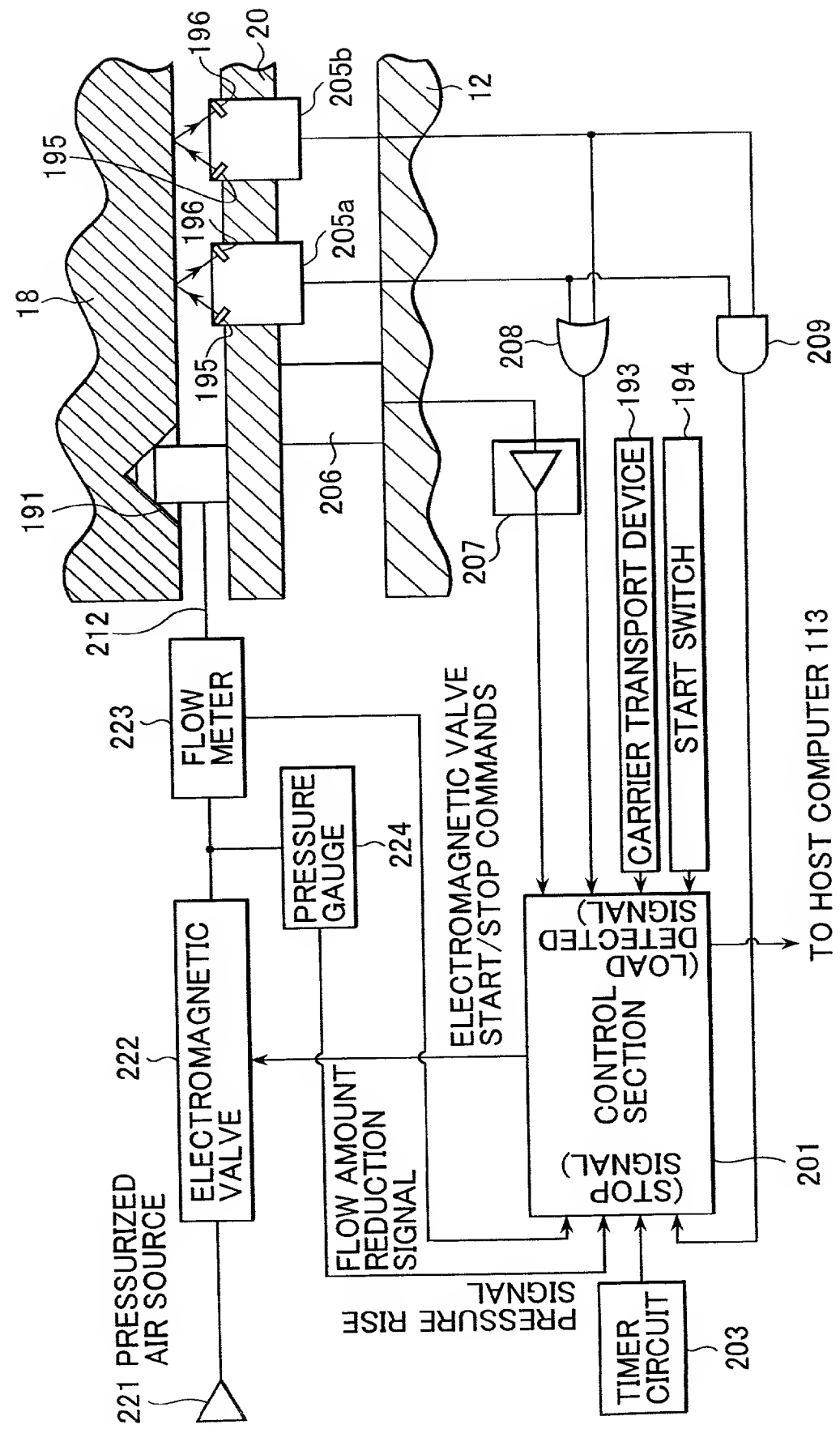


FIG.23

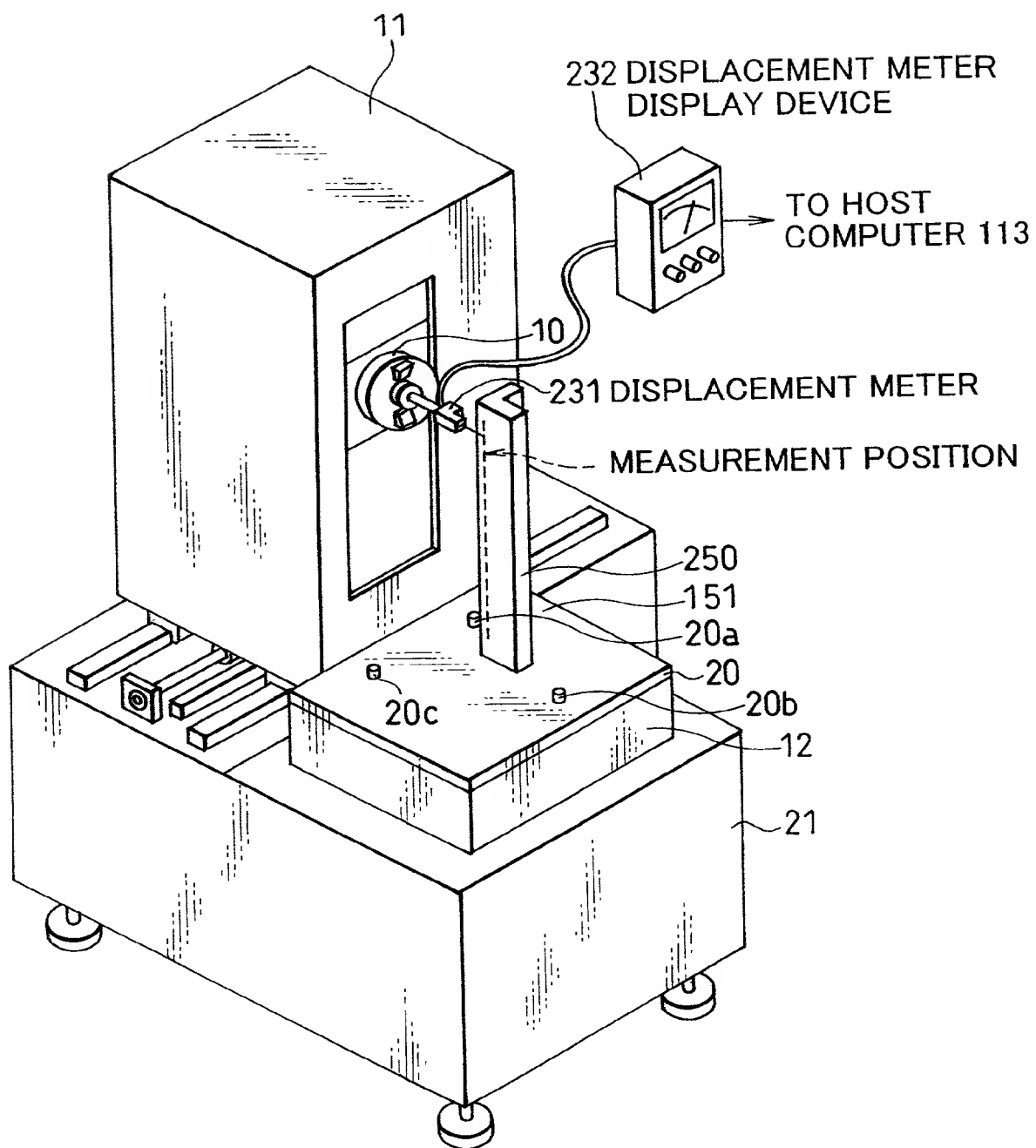


FIG.24

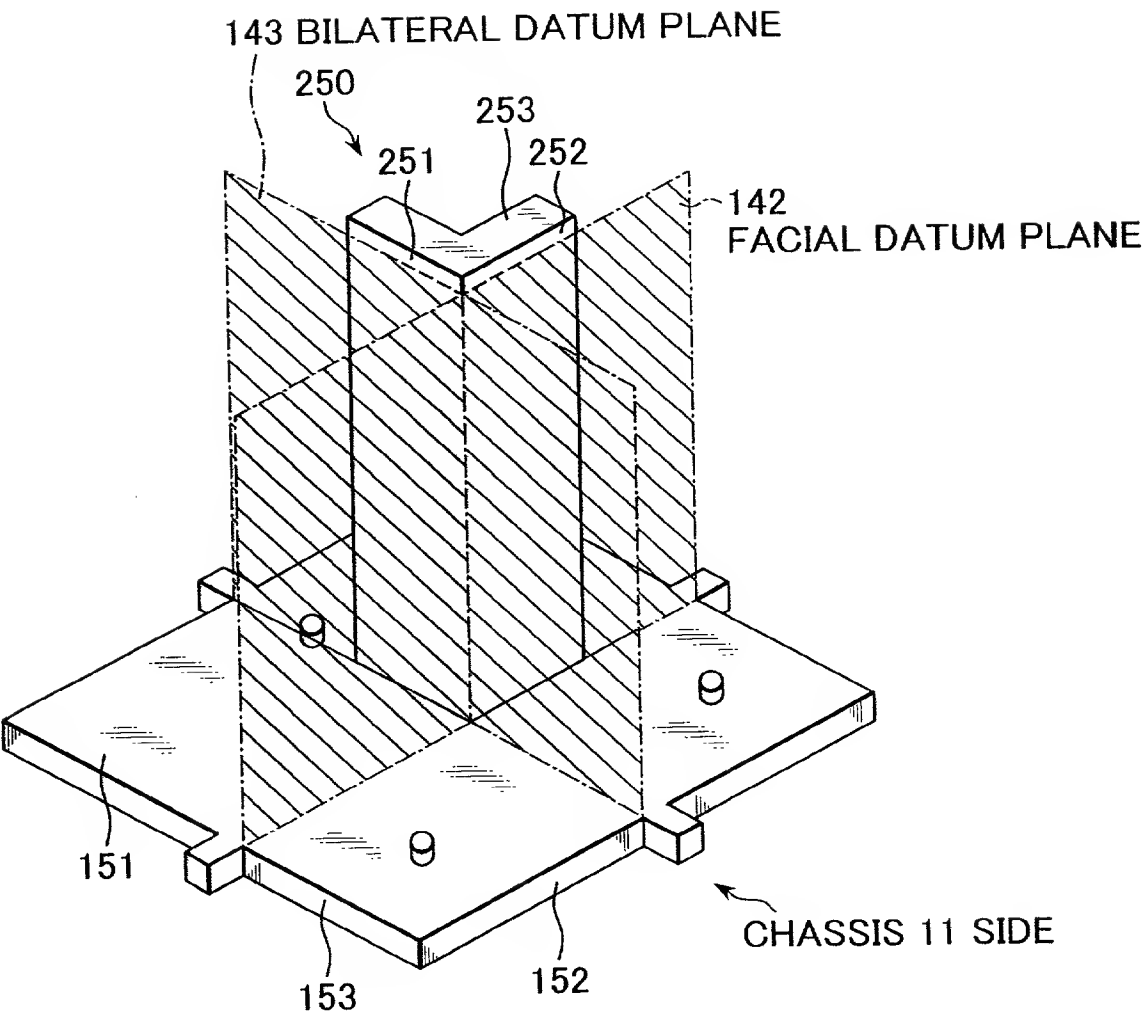


FIG. 25A is a perspective view of a corner bracket 250. The bracket 250 includes a first flange 251 and a second flange 252. The first flange 251 is formed by a first flange body 253 and a first flange tip 254. The second flange 252 is formed by a second flange body 253 and a second flange tip 254. The first flange tip 254 and the second flange tip 254 are formed by a common flange tip 254.

FIG.25A

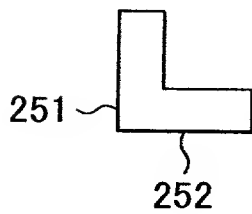


FIG.25B

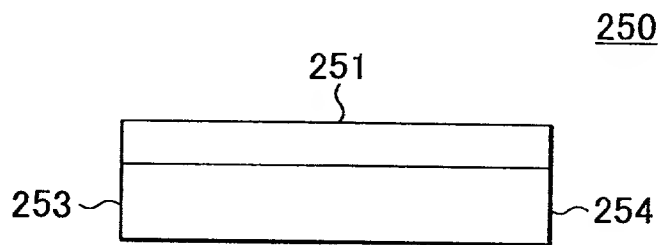


FIG.25C

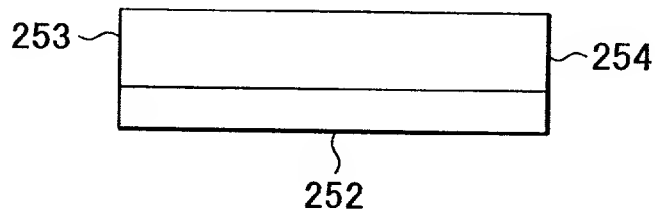


FIG.26

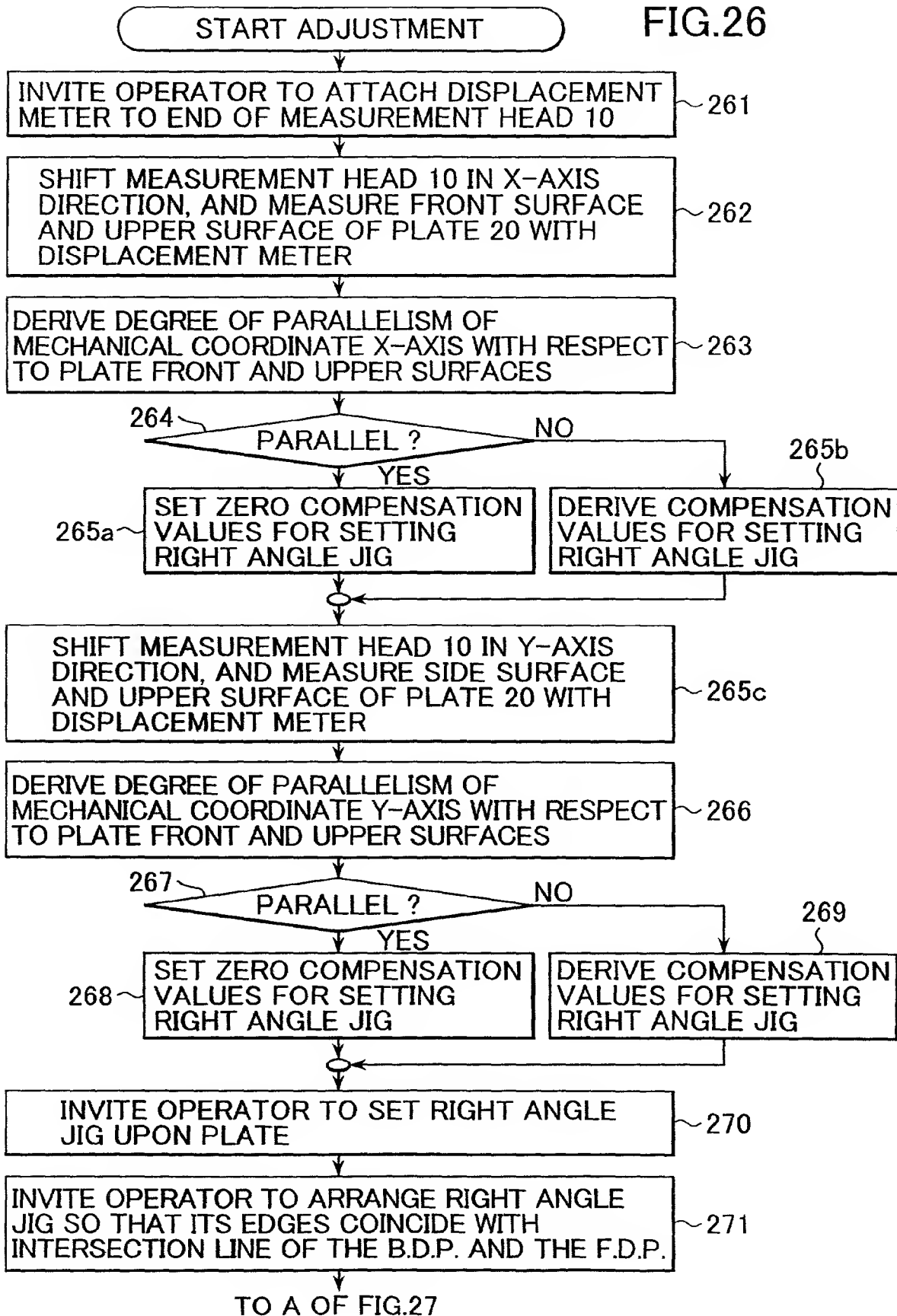


FIG.27

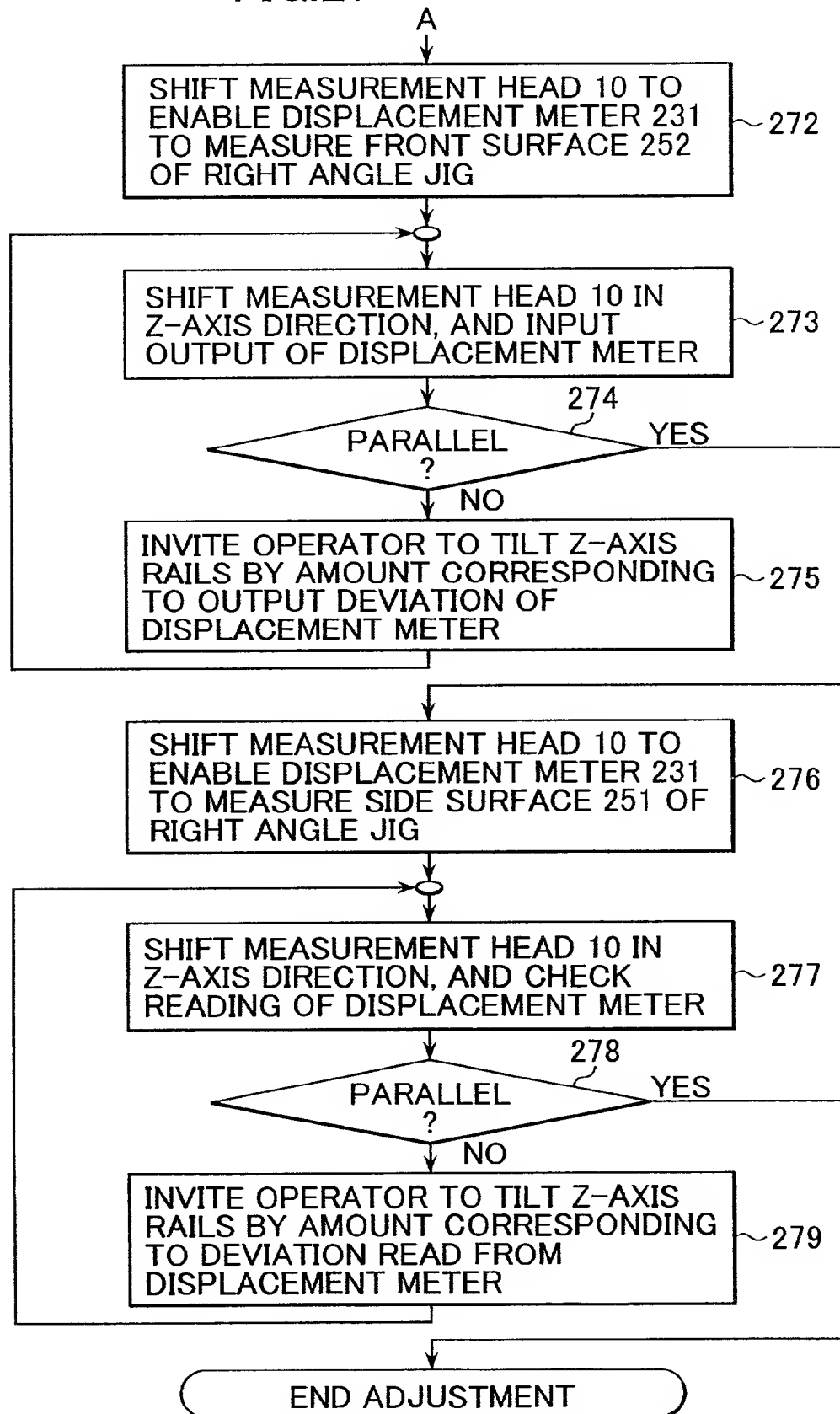


FIG.28

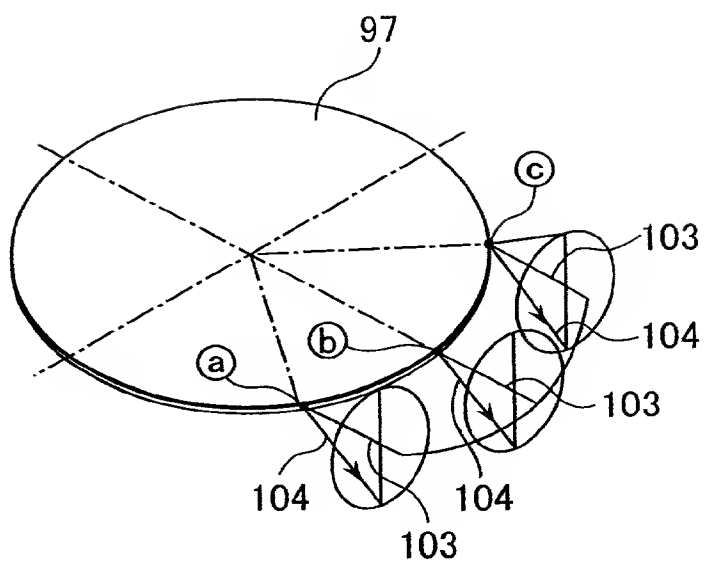


FIG.29

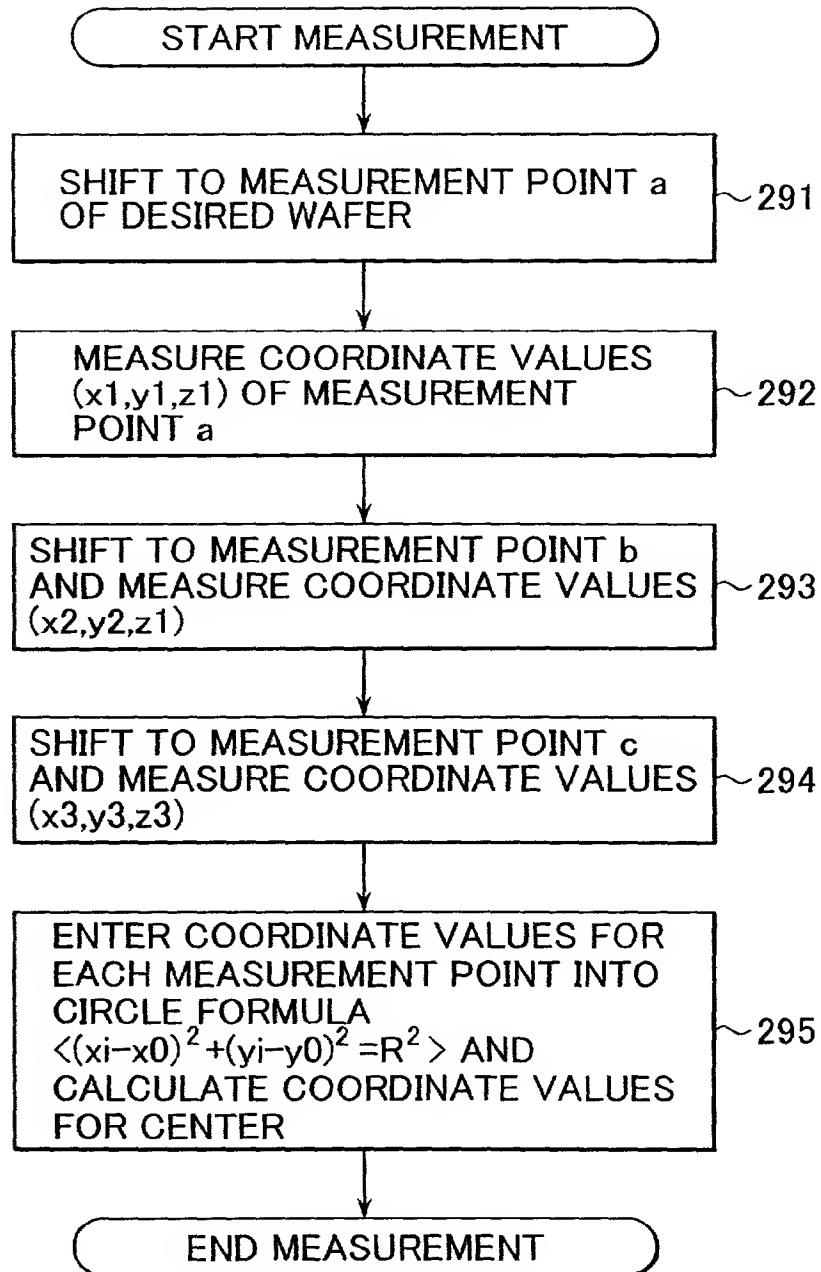


FIG.30A

WAFER 97 SECTION IN FACIAL DATUM PLANE 142

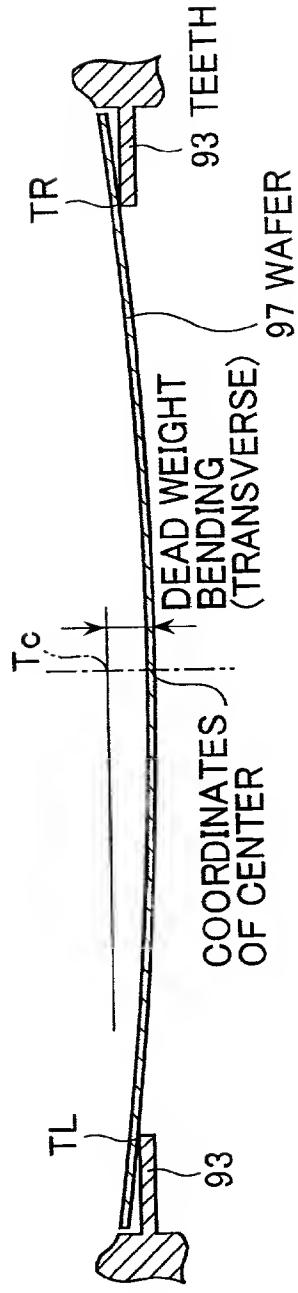


FIG.30B

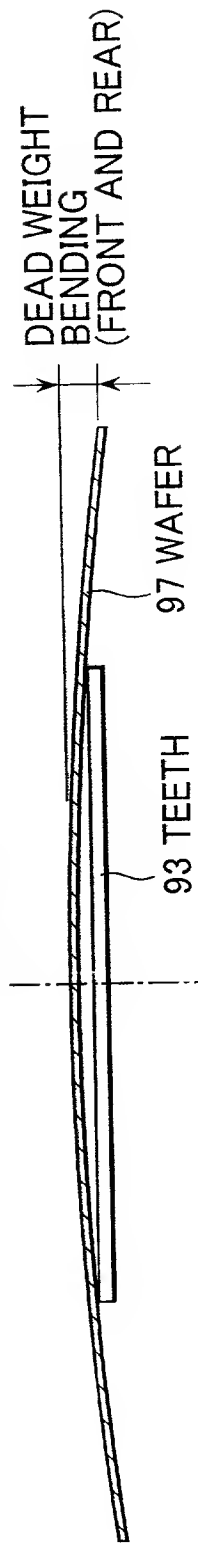


FIG.31

SECTION IN FACIAL DATUM PLANE 142

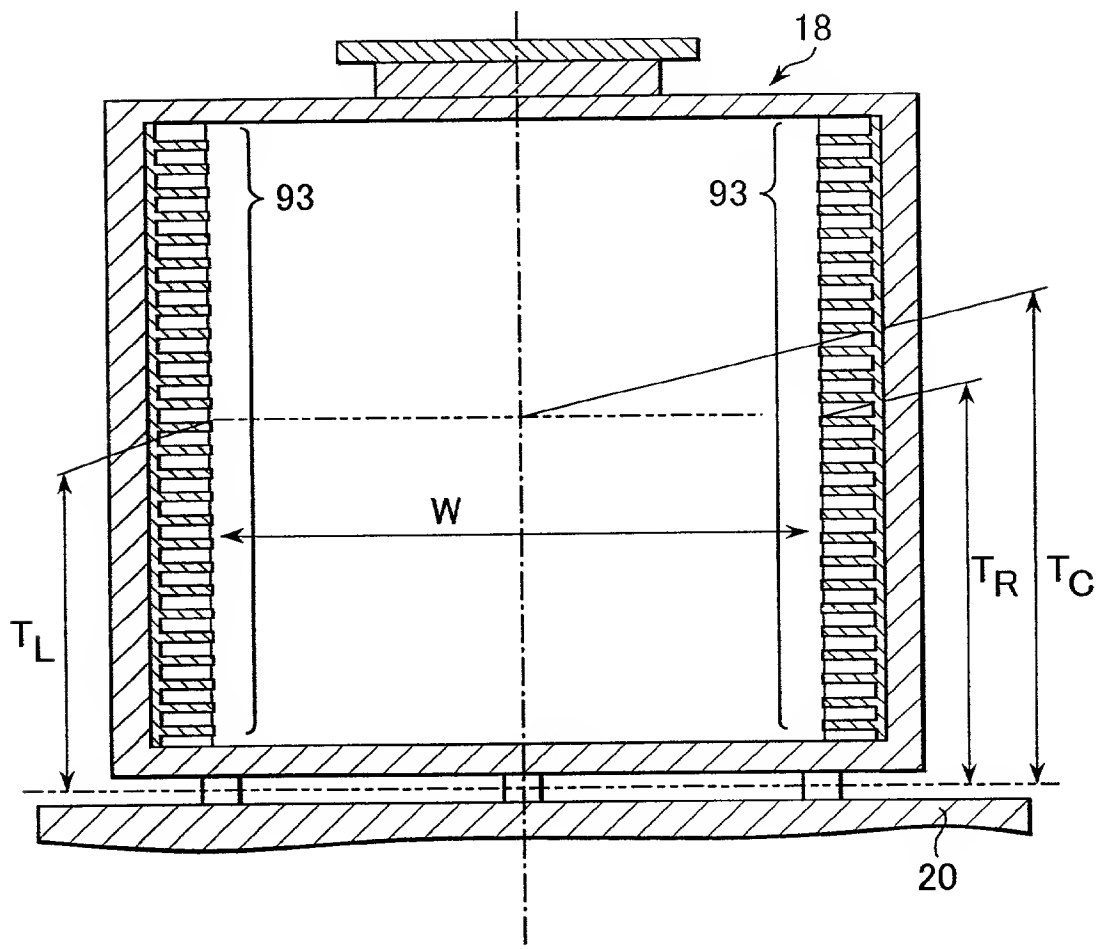


FIG.32

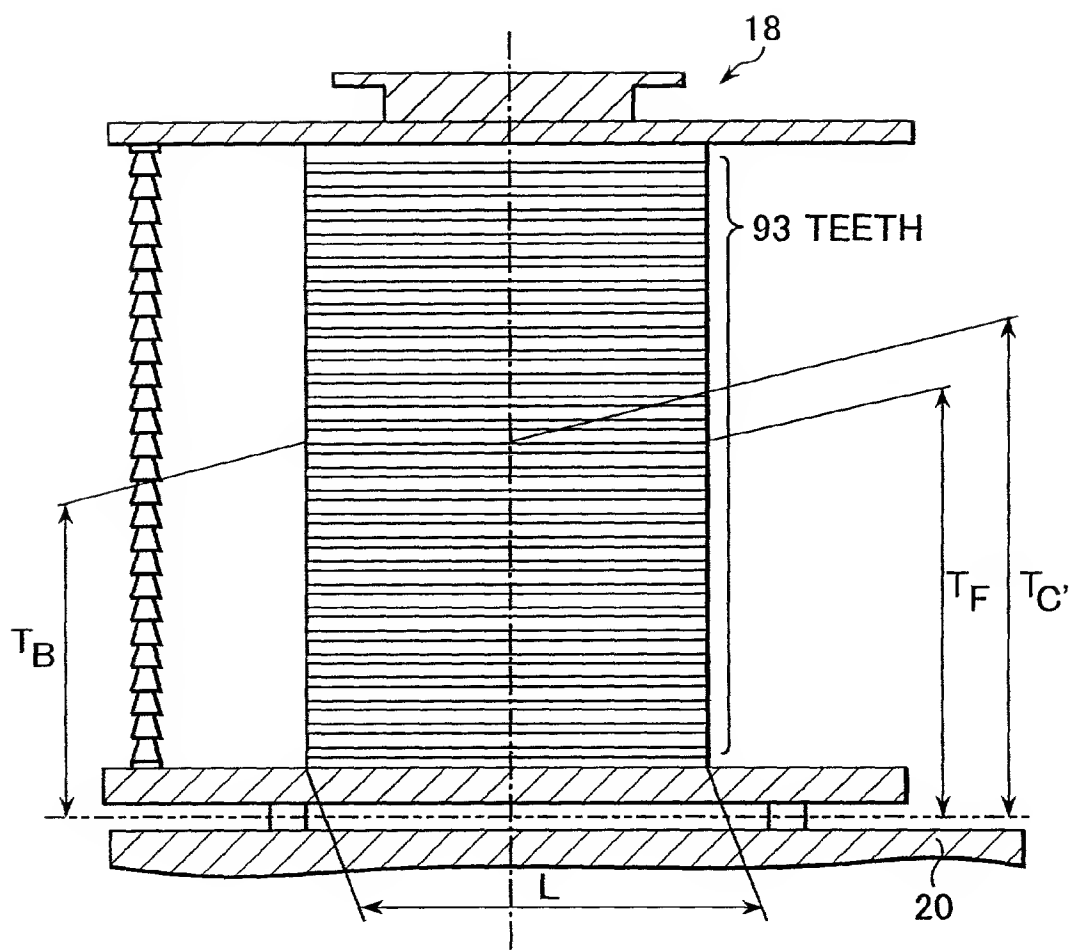


FIG.33A

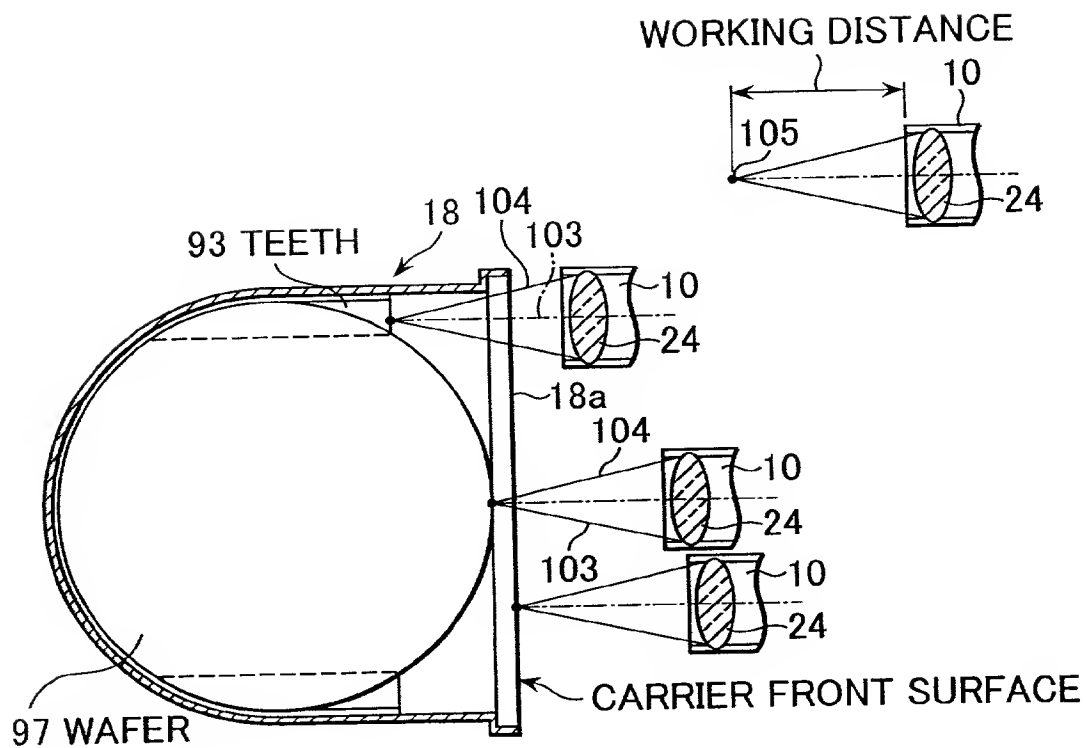
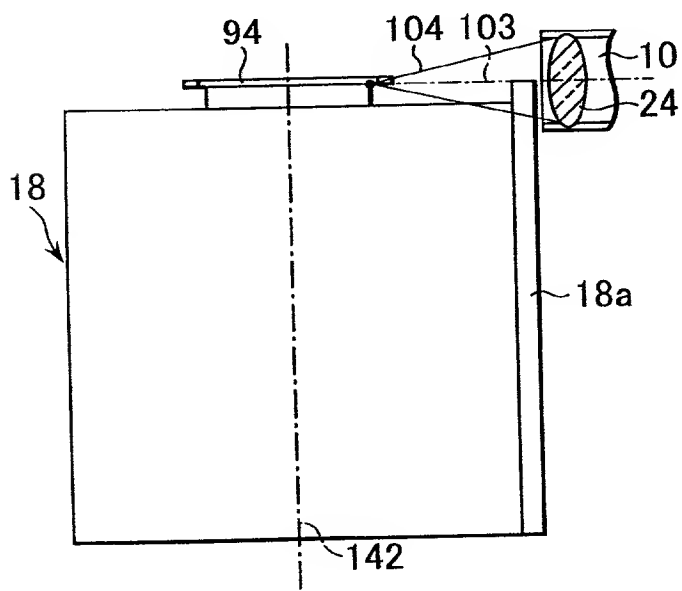


FIG.33B



DURING MEASUREMENT
OF CARRIER 18 FRONT
SURFACE (xy PLANE)

DURING MEASUREMENT
OF LEFT SURFACE
(-yz PLANE)

DURING MEASUREMENT
OF REAR SURFACE
(-xz PLANE)

DURING MEASUREMENT
OF RIGHT SURFACE
(yz PLANE)

FIG. 10 is a perspective view of a rectangular plate 20. The plate has a top surface 20a, a side surface 20b, and another side surface 20c. Four bolts 347 are used to secure the plate, with the label "FIXING BOLTS" indicating their function. The bolts are shown passing through the top surface 20a and being secured with nuts 348 on the underside.

FIG. 34E

FIG.35

CONVERT COORDINATE AXES OF IMAGE OF CCD CAMERA 22

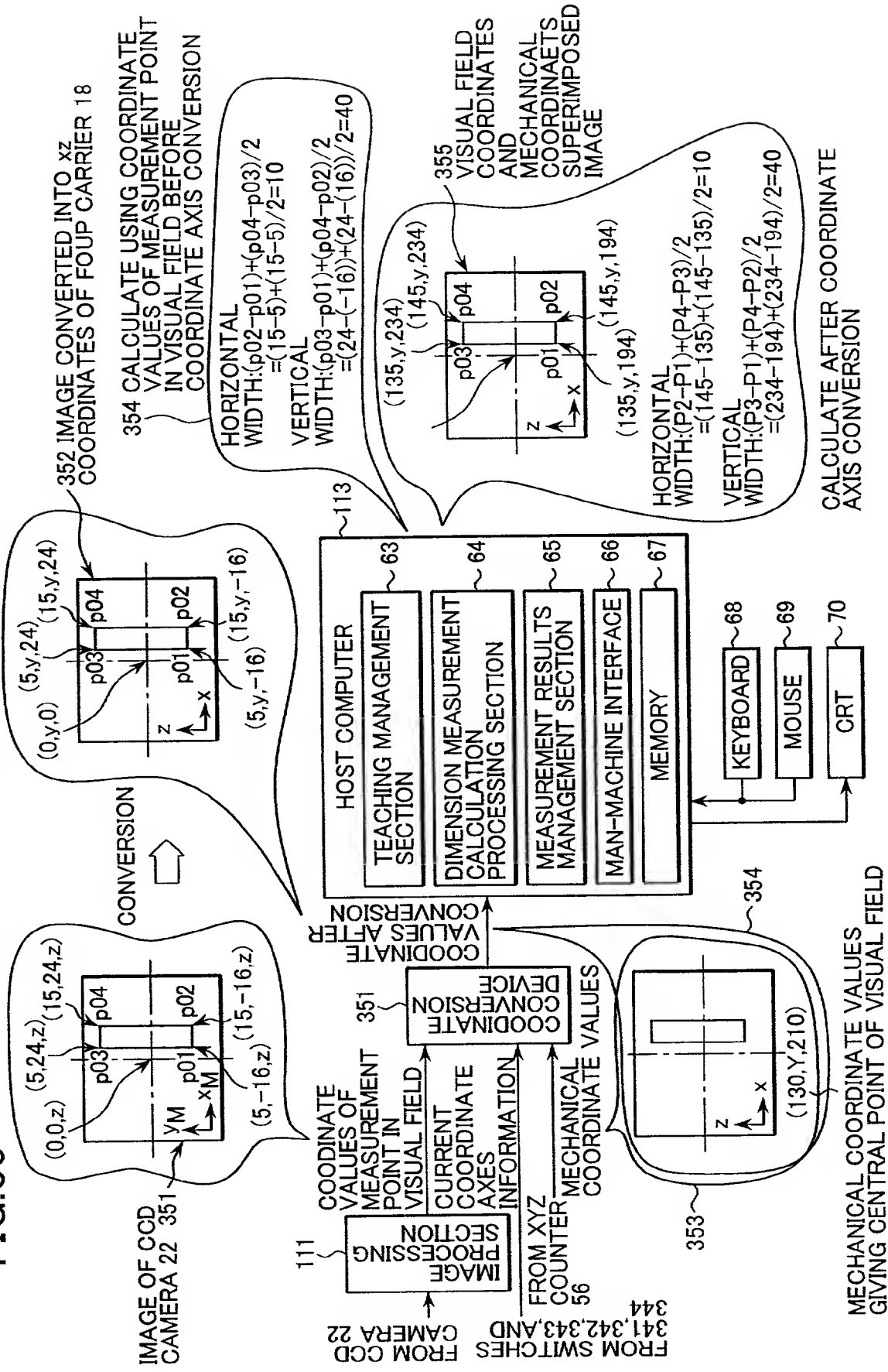
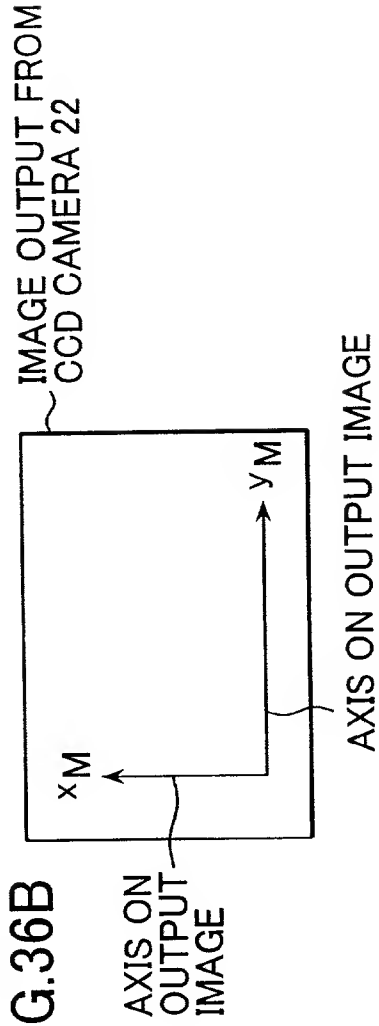


FIG. 36A

FIG.36A

FOUP (PLATE) DIRECTION	DEFLECTION SWITCH	VISUAL FIELD COORDINATE SYSTEM			MECHANICAL COORDINATE SYSTEM	
		ORIGINAL COORDINATES IN IMAGE FROM CCD CAMERA 22	COORDINATES AFTER CONVERSION (SURFACE OF CARRIER 18 WHICH IS PHOTOGRAPHED)	COORDINATE VALUES FOR POINT P03 AFTER CONVERSION	ORIGINAL COORDINATES OF XYZ COUNTER 56 GIVING SURFACE FACING MEASUREMENT HEAD 10	COORDINATES AFTER CONVERSION (SURFACE OF CARRIER 18 WHICH IS PHOTOGRAPHED)
FRONT SURFACE	SW 341	$x_M y_M$ (5,24,z)	xz	5,y,24	XZ	xz
LEFT SURFACE	SW 342		-yz	$x,-5,24$		-yz
REAR SURFACE	SW 343		-xz	-5,y,24		-xz
RIGHT SURFACE	SW 344		yz	$x,5,24$		yz

FIG.36B



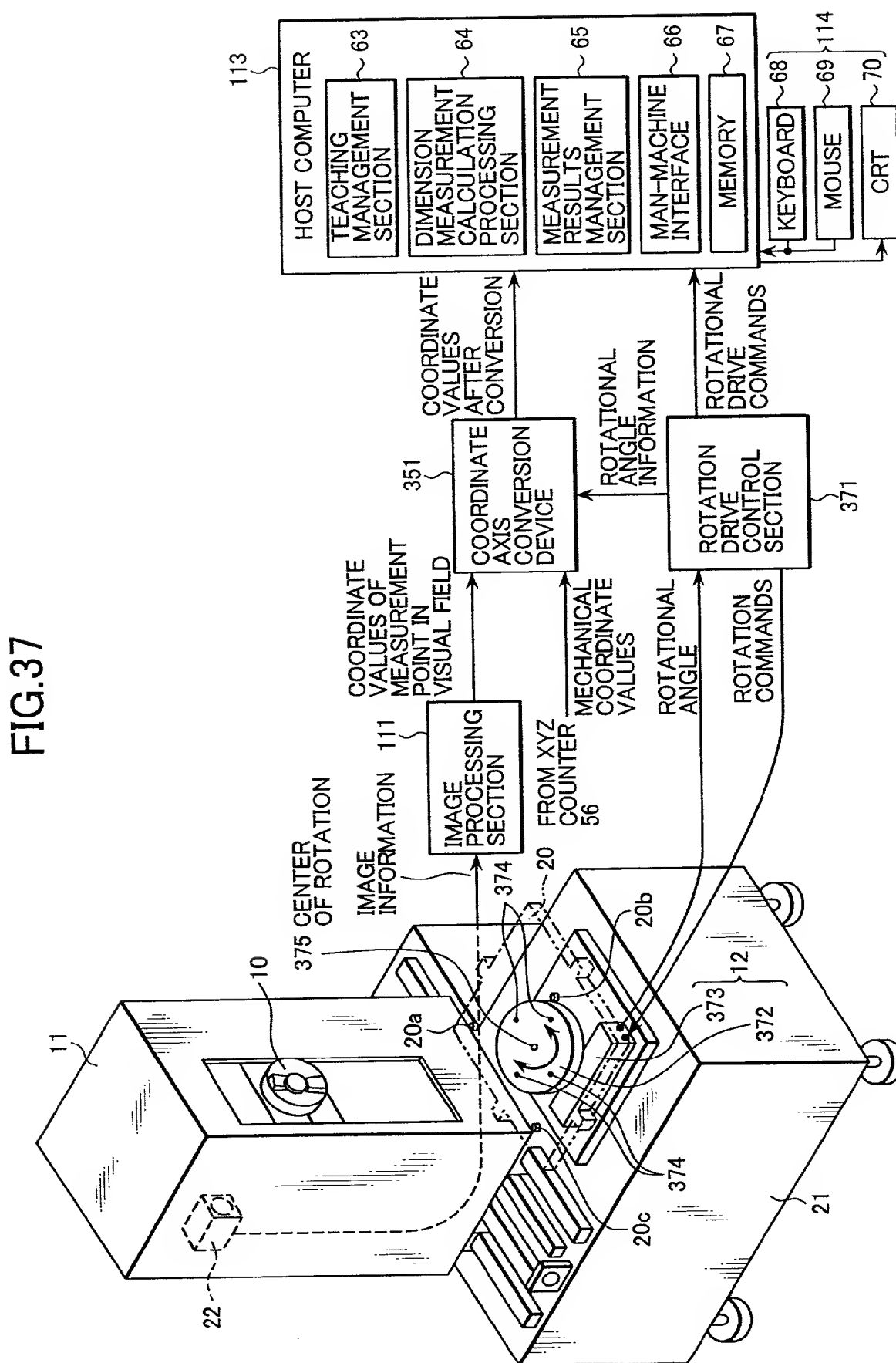


FIG.38

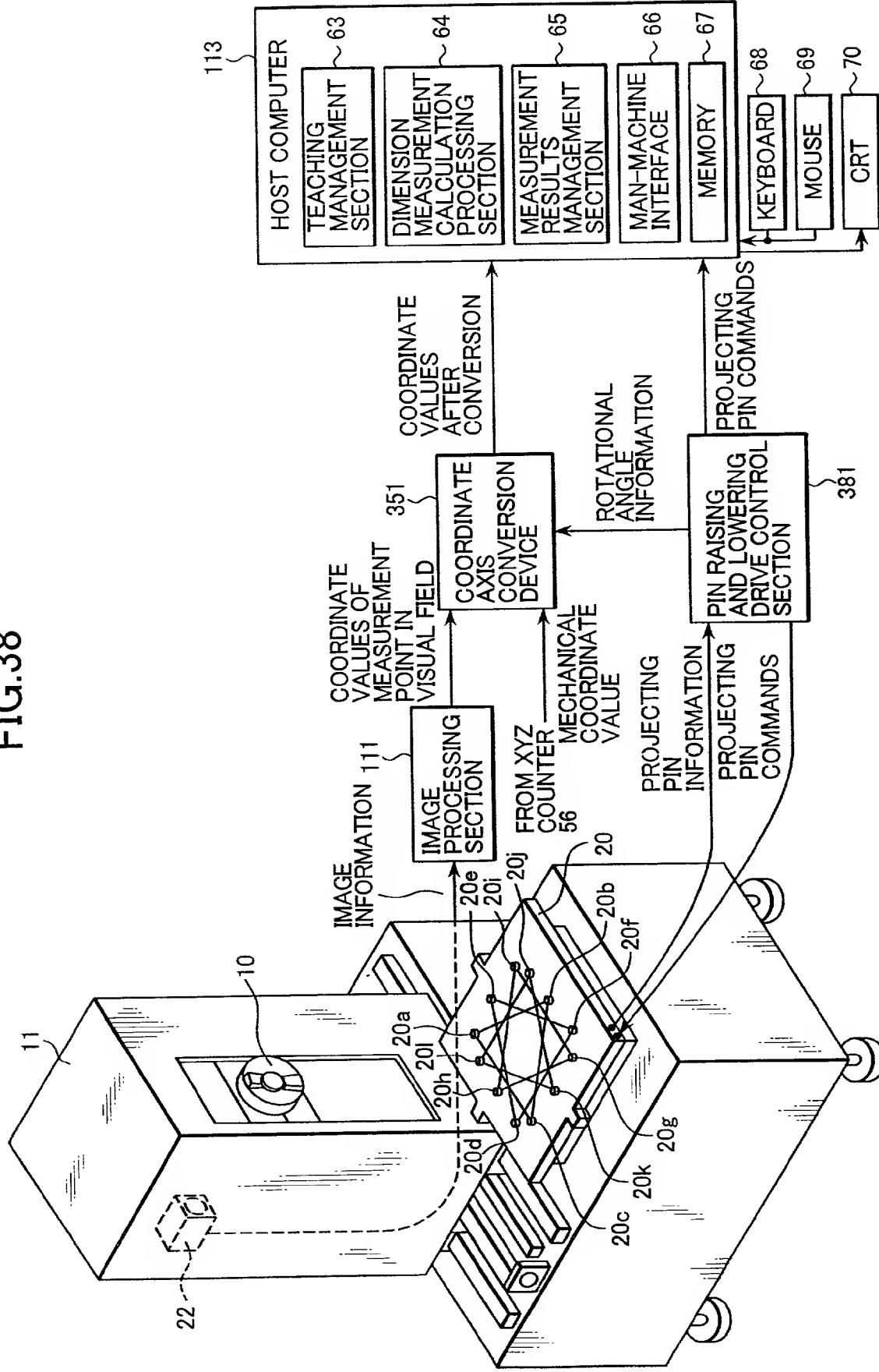


FIG.39A

(WHEN HOUSED)

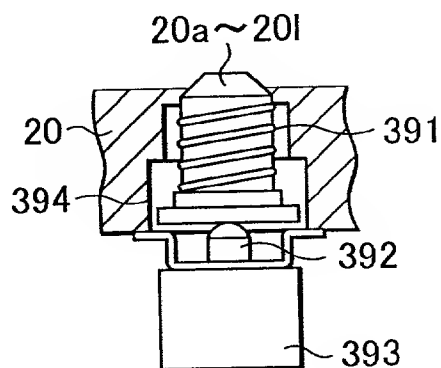


FIG.39B

(WHEN PROJECTED)

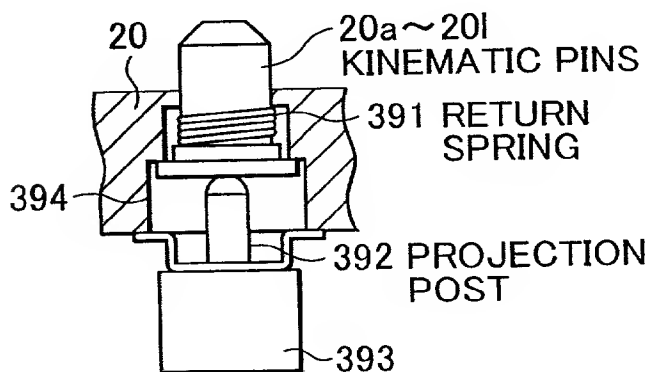


FIG.40

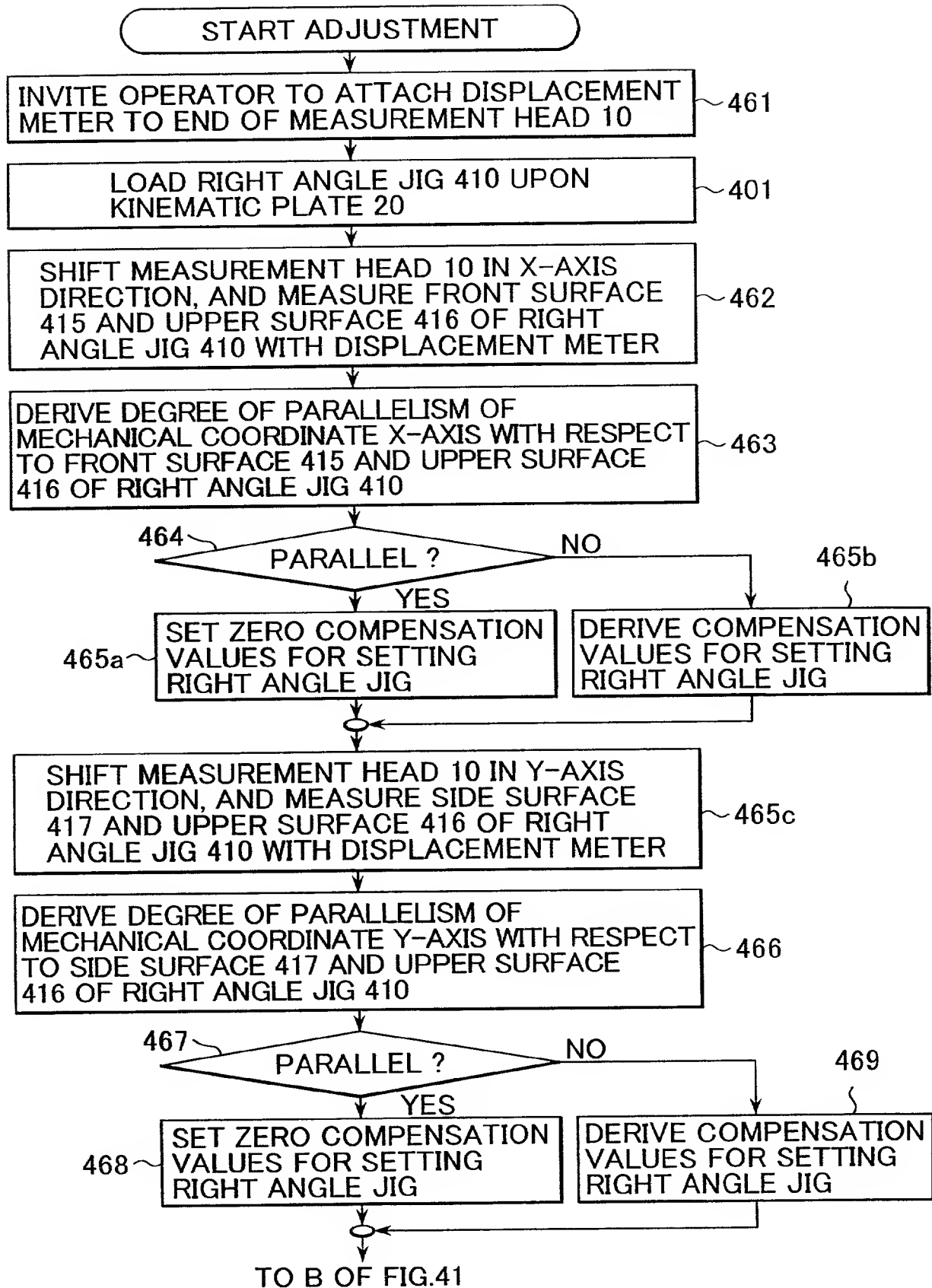


FIG.41

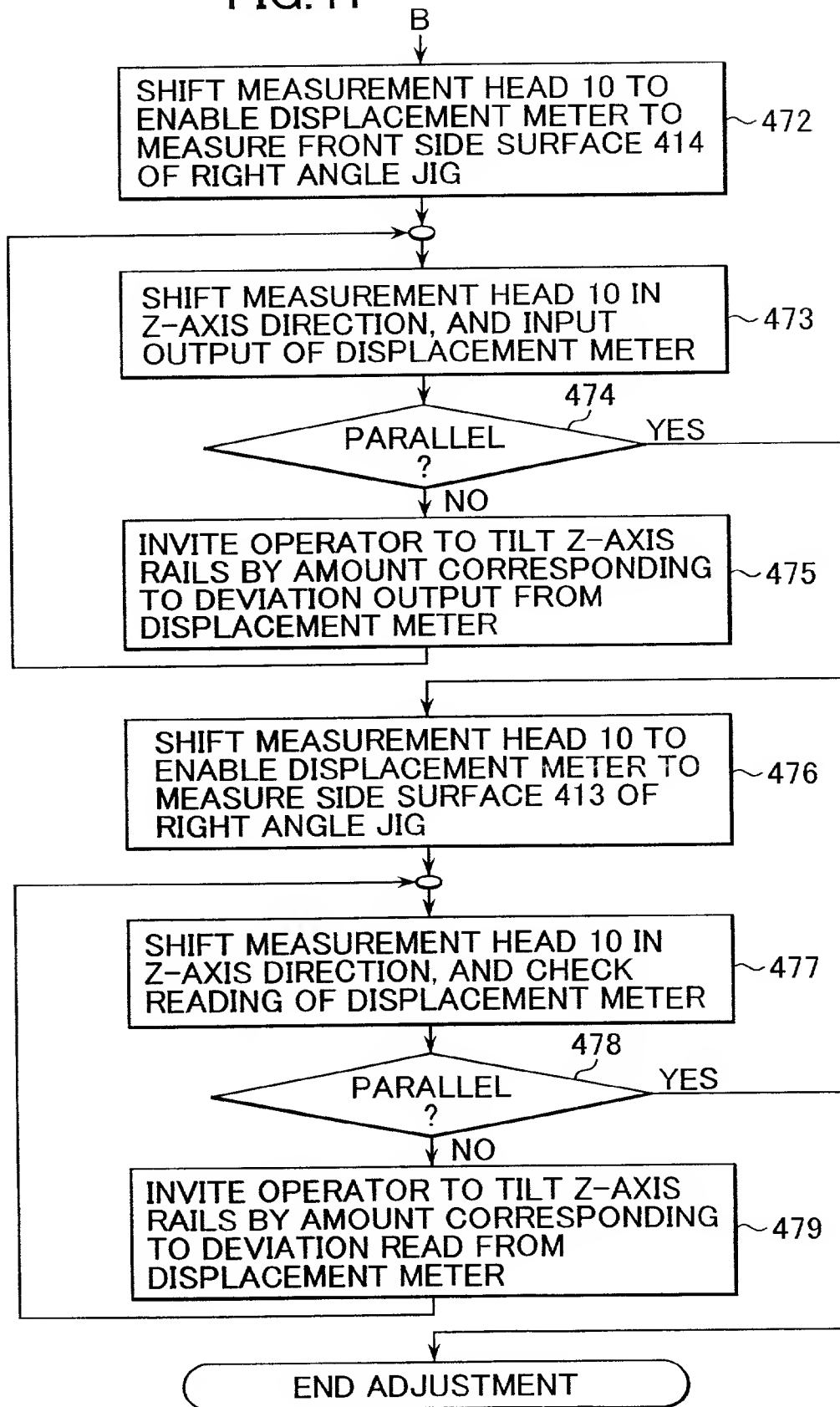


FIG.42A

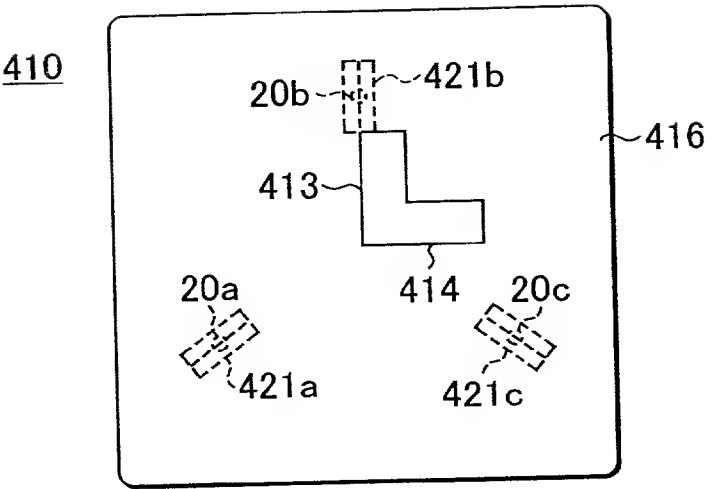


FIG.42B

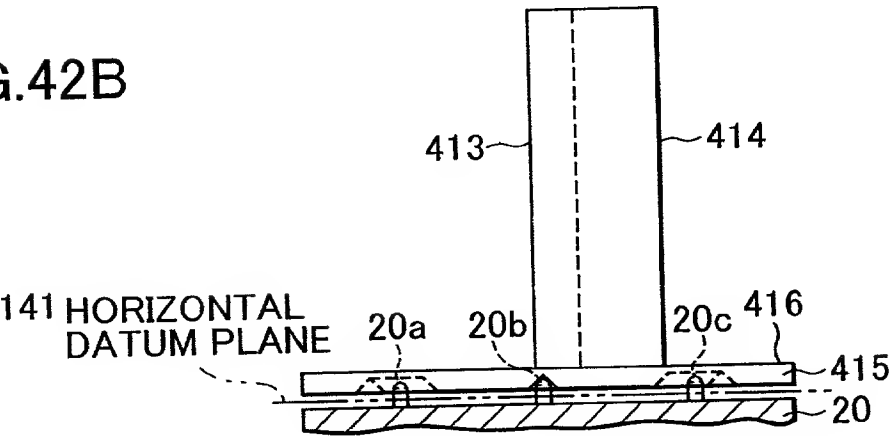


FIG.42C

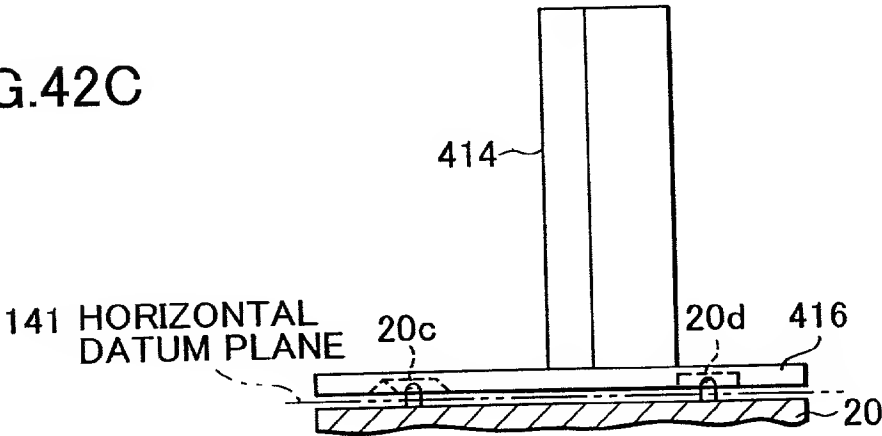


FIG.43

